CONSTRUCTION NEWS

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RAILWAYS.

*(*Denotes that this work is advertised in Engineering News.)*

MASSACHUSETTS.—The work of abolishing rade crossings in Lynn, begun last year by e Boston & Maine R. R., and which was topped some months ago pending a proosed change in the plans suggested by ynn merchants, is now in a fair way to a ettlement, and the work may soon recomence. The basis of the change is formuated in a bill now before the Legislature, roviding that the city shall pay for all ork rendered useless by the proposed hange, which is to depress instead of eleate the tracks. The city, in addition, will ay 10% of the cost of abolishing the crossngs of the two original tracks, the State 5% of that cost, and the railroad 65%., xcept that the Boston & Northern St. R. R. ays 15% of the cost where its tracks cross. The Boston & Maine R. R. assumes the cost ue to the extra two tracks. J. P. Snow is h. Engr. Boston & Maine R. R.

MASSACHUSETTS.—The harbor tunnel bill, s finally reported to the Legislature, provides that the tunnel shall be immediately lectrified as soon as built; that within five ears the New York, New Haven & Hartford hall electrify as far as Readville, and that ithin three years the Boston & Maine R. R. hall electrify from Lynn to Beverly, if the alem grade crossings are abolished within wo years.

MASSACHUSETTS.—New York, New Haven Hartford R. R.—Press reports state that he Berkshire division, from South Norwalk o Pittsfield, Mass., will be double-tracked o accommodate the heavy traffic that may e sent over it as the result of recent hanges in the operation of the Boston & Albany.

PENNSYLVANIA.—Bessemer & Lake Erie R. R. Co.—This company has appropriated 1,000,000 for improvements; of this, $300,-00 will be expended at Albion, Pa., in improving the yards. H. T. Porter, Greenville, Pa., is Ch. Engr.

GEORGIA.—Elberton & Eastern Ry. Co.—This company has been granted a charter to onstruct a railroad from Elberton to Washington and Lincolnton, a distance of 50 miles. The incorporators are W. O. Jones, W. F. Anderson, J. H. Blackwell, Elberton; J. A. Moss, Tignal; and M. A. Pharr, Washington.

MICHIGAN.—Pere Marquette R. R.—The improvement work to be undertaken consists mainly in building passing tracks, yard tracks and about 40 miles of second main track. J. F. Deimling, Detroit, Mich., is Ch. Engr.

ILLINOIS.—Hamilton Ry. Co.—Press reports state that this company has been incorporated to construct a railroad from the bridge spanning Mississippi River, between Hamilton, Ill., and Keokuk, Iowa, to the cities of Hamilton and Warsaw. The incorporators are George Higginson, Jr., Winnetka, Ill.; Joel D. Harvey, Geneva, Ill.; Joseph L. Valentine and Hoyne Wells, Chicago; and Apollos W. O'Hara, Carthage, Ill.

MISSOURI.—Missouri Pacific Ry.—Important improvements now planned include ballasting and the laying of heavier rails on the main line, and the filling of a number of trestles and bridges. Also the completion of double-tracking between Jefferson City and Cole Junction, between Bald Knob and Little Rock, which work was commenced in 1910. Locomotive repair shops and other engine facilities are being completed at Kansas City, Mo.; Hoisington, Kan., and Falls City, Neb. E. Mitchell, St. Louis, Mo., is Ch. Engr.

TEXAS.—Missouri, Kansas & Texas Ry.—Press reports state that this company will connect its line between Colmesnell and Trinity, 67 miles (orphan line), by constructing an extension from Trinity to Waco, about 25 miles; the construction of an extension from Colmesnell to a connection with the St. Louis & San Francisco R. R., at some point in Louisiana, is also said to be contemplated; the latter line will be about 140 miles long. A. M. Acheson, Dallas, Tex., is Acting Ch. Engr.

TEXAS.—Texas, Gulf & Northern Ry. Co. —This company has recently been incorporated to operate and build a railroad commencing at a point near Bovina, Parmer County, on a connection with the Pecos & Northern Texas Ry. Co., thence in a southerly direction through Bailey Cochran, Yoakum, Gaines, Andrew, Ector and Midland counties to a connection with the Texas & Pacific Ry., at Midland, a distance of 175 miles. The directors are J. A. Underwood, Honey Grove; J. D. Bedford, Amarillo; R. E. Underwood, Amarillo; J. F. Sadler, Weatherford; Robert E. Davis, Amarillo; Mike C. Lamaster and J. M. Neeley, Amarillo, Tex.

OKLAHOMA.—Wichita Falls & Northwestern R. R. Co.—This company is considering the extension of its line northward through Woodward to Fort Supply. R. A. Thompson, Wichita Falls, Tex., is Ch. Engr.

✚IDAHO.—The contract for constructing the Boise roadbed for the branch railway from Barberton to the Arrow Rock dam has been awarded to MANEY BROS., Boise, Idaho, at $75,150.

ELECTRICAL RAILWAYS.

(✚Denotes a contract awarded.)

MONTAGUE, MASS.—The directors of the new Millers River St. Ry. Co have petitioned the Selectmen for permission to locate tracks and all necessary turnouts, switches, poles, wires, etc., in town as follows: From the terminus of the present tracks up Main St., up Franklin St., thence to and across the bridge over Millers River to the town line between Montague and Erving. This is the first step in building the connecting link between Turners Falls and Orange. Noted under Millers Falls, April 27.

BOSTON, MASS.—The Boston & Northern St. Ry. Co. contemplates double tracking its line from Malden to Revere Beach. R. S. Goff, 84 State St., Boston, is Vice-Pres. and Gen. Mgr.

MINEOLA, L. I., N. Y.—The New York & North Shore Ry. Co. is making surveys for an extension of its line. The rail order has been placed.

SYRACUSE, N. Y.—The Public Service Commission, Second District, has authorized the Syracuse, Watertown & St. Lawrence River R. R. Co., to construct a railroad from a point near stop No. 9, on the Syracuse & South Bay R. R. to Breverton, six and one-third miles. Work will begin at once, it is stated. Noted on June 15.

WELLSBORO, PA.—According to press reports, Baer & Davis, contractors, of Philadelphia, are looking over the proposed trolley line from Wellsboro to Mansfield for the Tioga Traction Co., and will offer bids. It will require two years to complete the entire system, including subsidiary lines.

ESSINGTON, PA.—The officers of the newly incorporated Philadelphia Ry. Co. have planned extensive improvements to their road, one of which is the double-tracking of the line westward from the Schuylkill River. At Essington it connects with the tracks of the Chester Short Line, over which its cars pass to Chester. It is now proposed to continue the line from Essington to a Media connection. In order to do this, it will be necessary to extend the line about half a mile, which will involve the necessity of abolishing a grade crossing of the Baltimore & Ohio R. R. between Prospect Park and Folsom. When this improvement has been made the line will run north through Prospect Park anl Folsom, northeast to Morton and West from Morton to Media. The Philadelphia Ry. Co. has already provided steel bridges over the waters its line crosses, and will shortly double-track the line from the Schuylkill River to the western terminus. The officers are: Pres., I. H. Silverman; Treas., Benjamin Wolf; and Secy., Alvin W. From.

EPHRATA, PA.—The Ephrata & Lebanon St. Ry. Co., Mentzer Bldg., Ephrata, Pa., will soon commence actual construction on its 23-mile line to Lebanon and is in the market for construction supplies. The officers are H. H. Singer, Pres., Ephrata, Pa.; M. H. Shirk, Secy. & Treas., Lincoln, Pa.; D. B. Hoover, Supt.

NEW CASTLE, PA.—The Beaver Falls, Koppel & New Castle St. Ry. has been granted a franchise for a period of 25 years.

NORTHUMBERLAND, PA.—The Lewisburg, Milton & Watsonville Passenger Ry. Co. contemplate the extension of its lines to Northumberland, where it will connect with the line of the Sunbury & Northumberland Electric St. Ry. or the Sunbury & Selinsgrove Electric St. Ry. Charles S. Johann, Philadelphia, is Ch. Engr.

TITUSVILLE, PA.—The Titusville Electric Traction Co. has decided to issue additional bonds, to provide for constructing and equipping 34 miles of line. An extension to Cambridge Springs, Crawford County, Pa., and an extension southward to Oil City, Venango County, Pa., will be made. W. J. Smith Titusville, is Pres. and Gen. Mgr.

WASHINGTON, D. C.—The Washington Ry. & Light Co. is considering plans to double-track its line between Anacostia and Congress Heights.

PORTSMOUTH, VA.—The Norfolk & Portsmouth Traction Co., according to reports, proposes to build a line through Hatton St., between Glascow and London Sts. E. C. Hathaway is Gen. Mgr.

MORGANTOWN, W. VA.—The National Power Co., Pittsburg, has been granted a charter, under the laws of West Virginia, to build a trolley line from Point Marion up Cheat River. The incorporators are F. B. Parriott, W. B. Beecher, E. J. Cole, W. H. Young and S. B. Kelley, all of Pittsburg.

CHARLESTON, W. VA.—The Charleston-Dunbar Traction Co. has been chartered to build a railway from Charleston to Dunbar. The incorporators are Fred Paul Grosscup, Paul B. Grosscup and W. C. Davisson.

✚GASTONIA, N. C.—A contract has been let by the Piedmont Traction Co. to the DURHAM IRON WORKS for 700 tons of 70-lb. rails, to be used on the proposed line from Burlington to Haw River. T. C. Lee is Ch. Engr.

RALEIGH, N. C.—The Carolina Power & Light Co. will probably award contracts in the near future for the construction of a 3-mile extension from the city limits to the Raleigh Country Club. H. C. Taylor, 8 W. Martin, Raleigh, is Ch. Engr.

COLUMBIA, S. C.—The Columbia Ry., Gas & Electric Co. has petitioned the City Council to make the following additions to its system: A double track beginning at the intersection of Gervais and Sumter Sts., and running along Gervais St. to the eastern side of the intersection of Gervais and Henderson Sts. Also the right to run a double track curve from the present double track in Sumter St., at the intersection of Sumter and Gervais Sts., to connect with the proposed double track in Gervais St. A single track beginning at the intersection of Gervais and Pickens Sts. and running on Pickens St. to the intersection of Pickens and Hampton Sts., thence running on Hampton St. to the intersection of Hampton and Gregg Sts., thence running on Gregg St. to the intersection of Gregg and Taylor Sts., and joining the present single track on the north side of Taylor St. A single track beginning at the intersection of Gervais and Huger Sts. and running on Huger St. to the intersection of Huger and Hampton Sts., thence running on Hampton St. to the intersection of Hampton and Gist Sts. to the intersection of Gist and Laurel Sts. A double track at the intersection of Sumpter and Pendleton Sts., from the double track on Sumter St. on a curve into Pendleton St., running in an easterly direction, and thence a single track running on Pendleton St. to the intersection of Pendleton and Bull Sts., thence running on Bull St. to the intersection of Bull and Green Sts., thence running on Green St. in an easterly direction to a point near the Southern Ry., and thence across Hardin St. to the western end of Divide St. in the town of Shandon.

LAKE WEIR, FLA.—The Lake Weir, Ocala & Silver Springs Suburban R. R. Co. has been organized to build an electric railway between Lake Weir, Ocala and Silver Springs, it is reported. D. S. Woodrow is Pres.; E. W. Davis is Secy. and Treas.

MONTGOMERY, ALA.—The Alabama Traction Co. has been granted a franchise to extend its line along Montgomery St. as far as McDonough St.

NASHVILLE, TENN.—Construction work has been started by the Fidelity Securities Corporation, who are in charge, for the Nashville-Gallatin Interurban Ry. Co. The line will connect Nashville and Gallatin, about 27 miles. The company desires to purchase steel for bridges, 70-lb. rails, etc. H. H. Mayberry is Pres. and Pur. Agent; M. A. Pitts is Vice-Pres.; R A. Bailey is Secy., and M. A. Stainer is Ch. Engr. Noted May 25.

CLEVELAND, OHIO.—O. P. Van Sweringen, M. J. Van Sweringen and associates, are planning to build an electric railway here.

DUBLIN, OHIO.—A railway from Dublin to Fishingers is being promoted. The Columbus, Urbana & Western Traction Co. has charge of the work. An extension to a point near Columbus will ultimately be made. An appropriation of $50,000 has been made.

EAST YOUNGSTOWN, OHIO.—The Pennsylvania & Mahoning Valley Ry. has asked the Council of East Youngstown to pass an ordinance granting it the right to construct and maintain double tracks through East Youngstown from Stop 8. M. E. McCaskey, Youngstown, is Vice-Pres. and Gen. Mgr.

INDIANAPOLIS, IND.—Bids will soon be asked for by the Indianapolis, Nashville & Southern Traction Co., it is stated, for the construction of a railway between Indianapolis, Trafalgar, Nashville, Bloomington, Bedford, Mitchell, Orleans and French Lick. Thomas F. Wakefield is Secy.

FREEPORT, ILL.—The Freeport Ry. & Light Co. will rebuilt its line between Taylor's Park, in East Freeport and Whistler St., this city. Rails of 80 lbs. will be used.

DES MOINES, IOWA.—The contracts for the laying of new track and special work will be let by the Des Moines City Ry. Co. within a few weeks. One 2,000-KW. turbine will be purchased for its power house. J. E. Welsh, 205 Mulberry St., is Ch. Engr.

DAVENPORT, IOWA.—The Davenport & Muscatine Interurban R. R. Co. have decided to increase its capital for the purpose, it is believed, to build a new line.

✚OMAHA, NEB.—A contract has been awarded by the Omaha, Sioux City & Northern Ry. Co., to the KANSAS CONSTRUCTION & IRRIGATION CO., Garden City, Kan., to build an interurban electric railway from Omaha, Neb., to Sioux City by way of Blair, Tekamah and Decatur, about 90 miles. The route indicated seems to follow the old survey of the Omaha and Northern, a project of the late E. P. Reynolds, Jr., Wymore, Neb., and Capt. T. P. Gere, St. Paul, Neb., formerly of Sioux City, which was abandoned after the Great Northern Railway built its line to Ashland. B. M. McCue is Pres.; B. L. Allen is Ch. Engr. E. A. Tennis, of Garden City, Kan., is interested in the project, it is stated.

MIDDLETOWN, MO.—The St. Louis, St. Charles & Northern Traction Co. will probably begin work within the next eight months on a line to connect St. Louis, St. Charles, Old Monroe, Middletown, Laddonia and Mexico. The motive power will be electricity or gasoline. C. B. Duncan, Corso, is Pres.; R. E. Race, Mexico, is Gen. Mgr.

COLDSPRING, MO.—The North & South Electric Ry. Co. proposes to build 200 miles of railway. Surveys are being made, and part of the capital has been paid in. Henry Roher, Room 700, Fullerton Bldg., St. Louis, is Ch. Engr.

SAN DIEGO, TEX.—A survey is being made by the Texas-Mexican Co. for a new route which will do away with the two bridges San Diego Creek and curves of the present route. The new line will be south of the town.

LONGVIEW, TEX.—The Longview & Junction St. Ry. Co. will probably let contracts for rebuilding one mile of its line and for the construction of one mile. G. A. Foster, Longview, is Pres.

NEW YORK CITY SUBWAYS.

The Board of Estimate has awarded to the Brooklyn Rapid Transit Co. the contract to operate certain subways and extensions of elevated lines for which bids were published in Engineering News, Nov. 3, 1910. The lines to be constructed by the city, to be operated by the Brooklyn Rapid Transit Co., are as follows:

NEW LINES.	Miles.	Cost.
Broadway, Battery to Ninth St.	4.9 (both)	$17,200,000
Broadway, Ninth to 42d St., and Seventh Ave., 42d to 59th Sts..........		13,500,000
59th St. to Queensboro Plaza	2.3	2,500,000
Battery tunnel to Fourth Ave., Brooklyn	1.9	8,200,000
Spring St.	.2	500,000
Nassau St.	.8	3,500,000
Union Square to Eastern District	4.5	13,000,000
LINES UNDER CONSTRUCTION BY THE CITY.		
Fourth Ave., Chambers to 40th St., Brooklyn.........	5.7	20,000,000
Centre St. loop.............	1.5	7,800,000
LINES TO BE CONSTRUCTED BY B. R. T.		
Flatbush Ave. connection...	1.7	3,200,000
Reconstruction South Brooklyn lines	12.3	12,300,000
Third Ave. extension to Ft. Hamilton	1.5	1,200,000
Long Island City extension..	4.5	3,300,000
Jamaica extension	4.	3,100,000
Myrtle Ave. line to Luteran Cemetery	1.	800,000
Third tracking to Fulton St., Myrtle Ave. & Broadway lines	9.3	2,500,000
Total...............	34.3	$112,600,000

As shown in the above, of the total $112,-600,000, the city provides $58,400,000 in new cash, and allows $27,800,000 for completion of lines now under construction. This leaves but $26,400,000 for the B. R. T. to furnish.

The following lines were offered the Interborough Rapid Transit Co., which company refused to accept them on the terms offered:

LINES.	Miles.	Cost.
Lexington Ave., 35th to 135th Sts.	5.1	$27,700,000
Westchester Ave. to Bronx River	3.1	8,000,000
Jerome Ave. to Kingsbridge Road	4.4	600,000
Westchester Ave., from Bronx River to Pelham Bay Park	4.1	2,700,000
Jerome Ave., Kingsbridge Road to Woodlawn........	1.7	1,300,000
White Plains Road.........	4.8	4,600,000
Seventh Ave., Times Square to Battery	4.	21,000,000
Whitehall tunnel, Brooklyn.	1.7	7,500,000
Flatbush Ave. and Eastern Parkway to Buffalo Ave...	3.2	10,500,000
Livonia Ave., New Lots....	2.4	1,700,000
Nostrand Ave. to Flatbush Ave.........	2.4	3,700,000
42d St., Times Square to Steinway tunnel	.2	1,800,000
Steinway tunnel adjustment at Grand Central.........	..	2,500,000
*Steinway tunnel	1.6	3,000,000
Tunnel to Queensboro plaza.	.8	3,700,000
Astoria line	2.4	1,700,000
Corona and Woodside.......	3.	2,200,000
Total................	44.9	$109,600,000

*The sum of $3,000,000 to be allowed the Interborough for the interest in the tunnel.

GRAND JUNCTION, COLO.—The Grand Junction & Grand River Valley Ry. Co. has secured a right of way, it is stated, between Clifton and Grand Junction. Work will probably be started at once.

PORT ANGELES, WASH.—A. O. Powell, Rufus R. Wilson, C. F. Farmer, T. T. Aldwell and associates are reported to be the organizers of a company for the purpose of constructing a 51-mile railway from Port Angeles and Port Ludlow.

WHITE SALMON, WASH.—Representatives of the Mt. Adams Ry. Co. are negotiating for right-of-way for a line up the North Bank to White Salmon. W. W. Swan, this city, is Pres.

LOS ANGELES, CAL.—The Glendale & Eagle Rock Ry. Co. contemplates building a line from its present terminus, at Fourth St. and Brand Boulevard, through the Valley View tract, across the Los Angeles River into Griffith Park. Plans, it is stated, are being prepared. E. D. Goode, 329 Cedar St., Glendale, is Pres. and Gen. Mgr.

LIGHT AND POWER PLANTS.

*(*Denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—The present contract with the Rising Sun Street Lighting Co. has been extended to Feb. 1, 1912, at $23.60 per year per lamp. L. K. Rourke is Comr. Pub. Wks. Noted June 8.

BARKER, N. Y.—A franchise has been granted to the A. F. Sweet Electric Light & Power Co., Medina, to light Barker.

✚NEW YORK, N. Y.—A contract for furnishing electric-driven pumps for the court-house and post-office has been awarded to the EVANS-ALMIRAL CO., New York, at $11,681.

*Bids will be received at the office of the Quartermaster, Madison Barracks, New York, until 2 p. m., July 27, in triplicate, for the removal of old and installation of new steam boilers in five officers' quarters at this post. Plans and specifications may be had at the office of the Quartermaster.

Bids will be received at the Dept. of Public Charities, foot of East 26th St., until 2.30 p. m., July 14, for furnishing all the labor and materials required for the installation of two new boilers and accessories in the power house, Metropolitan Hospital District, Blackwells Island. Blank forms and further information may be obtained at the office of the Supervising Engineer of the Department, foot of East 26th St. Michael J. Drummond is Comr.

POUGHKEEPSIE, N. Y.—The Central Hudson Gas & Electric Co., a consolidation of the Poughkeepsie Light, Heat & Power Co., the Newburgh Light, Heat & Power Co., and the Hudson Counties Gas & Electric Co. has applied to the Public Service Commission for permission to issue $600,000 bonds, to be used for improvements and extensions.

STONEHARBOR, N. J.—A gas plant is being considered, it is stated.

PHILADELPHIA, PA.—The Philadelphia Electric Co. is preparing to have a $50,000 addition erected to its plant at 26th and Christian Sts. Plans have been prepared by John T. Windrim.

WILMINGTON, DEL.—The Wilmington & Philadelphia Traction Co. will begin construction work at once on an addition to its Brandywine power plant, near Buena Vista St. The building will be 100 × 80 ft., steel and brick will be used and equipped with 300-HP. boilers, mechanical coal-handling machinery and a Curtis steam turbine and a Worthington surface condenser.

WASHINGTON, D. C.—A reorganization of the Alexandria Electric Co., which owns the electric franchise in this city, and is extending its lines through Alexandria County, has been made. Under a new charter, granted by the State Corporation Commission, the company will be known as the Alexandria County Lighting Co. Thomas C. Coleman, of Baltimore, retires from the presidency of the company, and George E. Warfield, cashier of the First National Bank, has been chosen to succeed him. Francis R. Weller, former Gen. Mgr., has been made Vice-Pres. A. C. Portner is a Director. The new charter allows the company to increase its capital stock to $550,000, of which $50,000 will be spent at once for the installation of additional machinery.

HARDWICK, VT.—The citizens have voted $65,000 to increase the capacity of the electric plant. A dam, 13 ft. high, will be built, it is stated.

✚BLUEFIELD, W. VA.—A contract for the completion of the Coal Gas Works, owned by the Bluefield Gas & Power Co., which includes 15 miles of gas mains, four benches, two No. 3 retorts, etc., has been awarded to KERR-MURRAY MFG. CO., at $130,000. L. I. Polliett is Designing Engr.

DALTON, GA.—J. F. Joerissen, Atlanta, representing the Georgia Power Co., will make application for a franchise to bring its lines into Dalton. This is part of the plan to build a line from Atlanta by way of Marietta, Cartersville and Calhoun, and terminating at Dalton.

LOUDON, TENN.—The East Tennessee Light & Power Co. have been making a survey near Loudon for the purpose of building a transmission line into Loudon. It is believed the line will be extended to Knoxville. A power plant is under construction at Parksville, on the Ocoee River, Poke County.

MEMPHIS, TENN.—A permit has been issued at the office of D. C. Newton, City Building Comr., for a power house for the new union passenger station to be located at South Second St. and Caroline Ave. The structure will be one story, of brick construction with concrete foundation and roof. The cost will be $40,000, according to application for permit filed with Mr. Newton by Murch Bros. Construction Co., the contractors.

✚LATHROP (Sharpsburg post-office), OHIO.—A contract has been awarded to E. ELFORD, of Lathrop, for the construction of a power house and coal tipples for the Black Diamond Coal Co.

NEW PHILADELPHIA, OHIO.—The County Electric Co. has been incorporated for the purpose of building and operating plants to supply electric current to New Philadelphia and surrounding towns. The incorporators are S. L. Londen, H. K. Cravener, L. H. Purcell, M. R. Thornton and H. Miller.

BEACH CITY, OHIO.—The Beach City Electric Light & Power Co. has been incorporated to manufacture and sell electric current. The incorporators are: A. H. Elliott, Iva Arnold, W. H. Smith, George D. Viere and A. T. Dennis.

✚OTTAWA, OHIO.—A contract for plumbing, heating and ventilating system, to be installed in Court-House, to be erected, has been awarded to the SAMUEL A. ESSWEIN HEATING & PLUMBING CO., Columbus, at $5,675.

✚STEUBENVILLE, OHIO.—The contracts for heating and ventilating systems for the Lincoln Ave. school and the Garfield School for which bids were opened on June 26 have been awarded to BARTLETT BROS., Cleveland, as follows: Garfield School, $3,415 and Lincoln Ave., $3,571.

✚CANTON, OHIO.—Contracts for necessary equipment for producing power for the auxiliary station have been awarded as follows: The RUSSELL ENGINE CO., for two engines, $5,975; two generators to the FT. WAYNE ELECTRIC CO., Ft. Wayne, Ind., $4,640, and the WICK BOILER CO., Detroit, Mich., one 300-HP. vertical boiler, $3,294.

SOUTH BEND, IND.—The Indiana & Michigan Electric Co. is contemplating expending $100,000 for underground conduit work.

ELKHART, IND.—The Indiana & Michigan Electric Co., 220 W. Colfax Ave., South Bend, will probably do its own work necessary to reconstruct its dam and build a power house at Elkhart. About 3,000 HP. will be developed. F. A. Bryan is Gen. Mgr., and William G. Fargo, Jackson, Mich., is Hydraulic Engr. Noted June 22.

✚NEGAUNEE, MICH.—A contract has been awarded to W. H. YATES, Negaunee, representing the Allis-Chalmers Co., Milwaukee, Wis., for improving the electric light plant, which includes one 350-HP. cross-compound Corliss type engine, to drive 200-KW. alternator and auxiliaries, switchboard, etc., to cost about $15,000.

ALLEGAN, MICH.—Burrell Tripp of this city and A. C. Runyan of South Haven have asked the City Council for a franchise to establish a gas plant to be built this summer at an estimated cost of $20,000.

✚ALTON, ILL.—The Alton, Jacksonville & Peoria Ry. Co. has awarded a contract to J. J. WUELLNER & SONS for the construction of its new power station, located about nine miles outside of Alton. The cost is estimated at $10,000.

DES MOINES, IOWA.—See item under Electric Railway for low-pressure turbine.

TOWER, MINN.—Bids will be received by Charles Lang, City Recorder, until 3 p. m., July 10, for the construction of a power plant in accordance with plans and specifications on file with the City Recorder and with D. A. Reed, Consult. Engr., 423 Lyceum Bldg., Duluth, Minn. Four separate contracts for this work will be executed under the following heads: Concrete dam and power house, electrical apparatus, hydraulic apparatus and transmission line.

FAIRVIEW, S. DAK.—The Fairview Milling Co. will let contracts for the construction of the proposed dam to develop 500 HP. The Missouri Valley Engineering Co., Mitchell, prepared the plans. The cost is estimated at $100,000.

DENBIGH, N. DAK.—Bids will be received by Joseph Craft, Clk. Bd. of Education, until July 25 for the installation of a heating plant in the Denbigh School.

✚HELENA, MONT.—A contract for the installation of lighting system and fixtures for the State Capitol Building has been awarded to MOREAN CO., Cleveland, Ohio, at $10,000.

KANSAS CITY, MO.—Bids will be received until July 15 by the City Purchasing Agent, for furnishing and delivering at the Quindaro Water Works pumping station, Kansas City, Mo., a direct-current turbo generator for furnishing electricity for lights and power purposes.

MEXICO, MO.—The City Council has granted a 30-year franchise to the Mexico Power Co. for a central heating plant, which is to be installed this summer in the downtown district. This company owns the water-works system, electric light plant and gas plant here. It is proposed to utilize the exhaust steam from the electric light plant to heat the city.

CLARKSVILLE, ARK.—A municipal lighting plant, a sewer system and water-works will be built, it is stated. The remains of the old plant, which was destroyed by fire, will probably be purchased. The work will be started at once.

WACO, TEX.—The Waco Gas & Electric Co. has been incorporated. J. F. Strickland, O. Goodwin and M. B. Templeton are reported the incorporators.

TEMPE, ARIZ.—The Reclamation Service, through its local engineer, C. H. Fitch, has made application for the privilege of erecting a 10,000-volt transmission line in Tempe. The proposed line is to come in from the south at Mill Ave. and Eighth St., and extend to the government's pumping plant which is now being constructed on the San Francisco River.

CHICO, CAL.—The Pacific Gas & Electric Co. is preparing to spend about $100,000 in perfecting and extending its gas mains and feeders. In Chico Vecino over $16,000 will be expended, $19,000 will be spent in Chapmantown, and at the gas works, Second and Cherry Sts., $55,000 will be used in repairing and adding to the capacity of the plant. In other parts of Chico $20,000 will be spent on improvements. A 100,000 cu. ft. gas holder will be erected at Second and Cherry Sts.

MADERA, CAL.—The Board of Trustees passed an ordinance granting a franchise to F. O. Roberts to lay gas pipes, mains and conduits; also to erect and maintain a gas plant and system.

✚PASADENA, CAL.—A contract for which bids were opened on June 20 to install steam turbine generator, condenser pump and auxiliaries at the municipal lighting plant has been awarded to the WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, Pa., at $22,855. The other bidders were: Allis-Chalmers Co., $28,090; General Electric Co., $29,250; De Laval Steam Turbine Co., $31,100.

SACRAMENTO, CAL.—An appropriation of $103,000 has been made by the State Legislature for a power plant equipped with gas and electrical machinery.

✚SANTA ROSA, CAL.—The contract for the construction of a power house and laundry, mechanical equipment, heating and laundry machinery, for which bids were opened June 8, has been awarded to HOYT BROS., Santa Rosa. The estimated cost is $14,176.

SENECA, CAL.—The Indian Valley Electric Light & Power Co. expect to call for bids in about 30 days for water power development and a 25-mile transmission line. The company will have a total development of 31,500 HP. water-power, which includes the operating plant at Greenville. The main offices are at 1116 Crocker Bldg., San Francisco.

HAMILTON, ONT.—The Board of Control have recommended that the Council submit a by-law to the ratepayers to raise $505,160 for the purpose of constructing a plant to distribute hydro-electric power and light.

PRINCE ALBERT, SASK.—Bids will be received by C. O. Davidson, Secy.-Treas., until July 15, instead of closing on June 26, for electrical equipment to be installed at La Colle Falls Power Station. Noted June 1.

BRIDGES.

BOSTON, MASS.—Bids will be received until July 11 for repairing the draw foundation at Warren Bridge. L. K. Rourke is Comr. of Pub. Wks.

HINCKLEY, N. Y.—Plans have been prepared for the construction of a reinforced concrete bridge, to cost $14,000.

NEWARK, N. J.—Bids will be received by the Committees of the Board of Chosen Freeholders of Essex County until 2 p. m., July 9, for the following work: constructing concrete arch bridge on Parkway, Montclair; concrete arch bridge on Maple St., West Orange; concrete culvert on Ridgewood Ave., Glen Ridge; concrete culvert on Pleasant Valley Way, near Pleasantdale School House, West Orange; iron pipe drain on Bloomfield Ave., near Belmont ave., Belleville; recovering bridge with concrete on Dutch Lane, Caldwell; laying 300 ft. of 42-in. reinforced concrete pipe on Long St., East Orange, and 400 ft. of 36-in. reinforced concrete pipe on Walnut St., East Orange; furnishing and setting 1,500 ft. of wooden post and rail fence on Watchung Ave., Bloomfield, and 500 ft. of wooden post and rail fence on Joralemon St., Belleville; furnishing and laying 1,300 ft. of 20-in. vitrified pipe on Westfield Ave., Caldwell. James Owen is City Engr.

*✚KUTZTOWN, PA.—The contract for constructing a reinforced concrete arch bridge at Kutztown has been awarded to CARL R. CAMP, Montrose, Pa., at $10,638.

*BALTIMORE, MD.—Bids will be received by the State Roads Commission until noon, July 17, for building a bridge over the Nanticoke River, between Dorchester and Wicomico Counties, at Sharptown; total length of bridge to be 640 ft., including pivot draw, with two 75-ft. openings, six spans, deck plate girder construction, draw span through riveted truss. John M. Tucker is Chn., and E. E. Goslin, Secy.

SHARPTOWN, MD.—Bids will be received by the State Roads Commission Union Trust Bldg., Baltimore, until July 17, for constructing a bridge over the Nanticoke River, between Winchester and Wicomico Counties, at Sharptown; total length, 640 ft., including pivot draw, with two 75-ft. openings; six spans, deck-plate girder construction, draw-span through riveted truss.

HARRISVILLE, W. VA.—Bids will be received by the Court of Ritchie County until July 6 for constructing steel bridges, as follows: one 30-ft. span, with 12-ft. driveway, across Lafe Collins' Run, in Clay District; one 60-ft. span, with 12-ft. driveway, across Bone Creek, in Union District; one 60-ft. span, with 12-ft. driveway, across Goose Creek, in Grant District; one 130-ft. span, with 16-ft. driveway, across South Fork of Hughes River, about 200 ft. above the mouth of Camp Run, in Murphy District. W. R. Meservie is Clk. of County Court.

JACKSONVILLE, FLA.—Bids will be received by the Board of Commissioners of Duval County until 10 a. m., July 7, for constructing a bridge over Nassau River, on the Duval Run. Gail L. Barnard is County Engr., and C. W. Ellis, Chn. Bd. Comrs.

MERIDIAN, MISS.—Plans have been prepared by a committee of railroad officials and engineers, recently appointed, for constructing a viaduct at 25th Ave., to cost $150,000.

*PADUCAH, KY.—The contract for placing concrete piles for the concrete bridge over Island Creek, at Paducah, Ky., has been awarded to the RAYMOND CONCRETE PILE CO., New York and Chicago.

LOUISVILLE, KY.—Press reports state that a practical agreement has been reached between the Louisville Ry., the Kentucky & Indiana Terminal R. R., and the City of Louisville, whereby a viaduct for the elimination of grade crossings along 31st St., Louisville, will be erected. The cost of the work is estimated at $480,000.

CLEVELAND, OHIO.—[illegible]ds will be received by the Board of [illegible]mmissioners of Cuyahoga County until 1[illegible] a. m., July 1[illegible], for the construction of [illegible]dge work, per report No. 2822, bridge [illegible]tension, South Woodland Road, Warrensv[illegible] Township, and report No. 2823, bridge [illegible]tension, South Woodland Road, Warrens[illegible] Township, in accordance with the form [illegible] contract and specifications to be furni[illegible] by Frank R. Lander, County Surveyor. [illegible]hn F. Goldenbogen is Clk. Bd. of Com[illegible]

STEUBENVILLE, OHIO.—The Steubenville Bridge Co. has bee[illegible] incorporated by Nelson S. Miller, Frank [illegible] Sinclair, Albert G. Lee, John F. Flood and [illegible]muel G. Stewart, with a preliminary ca[illegible]l of $5,000, to erect a bridge across the [illegible] River.

INDIANAPOLIS, IND.—[illegible]s will be received by the Board of P[illegible]c Works until 10 a. m., July 10, for co[illegible]ructing a reinforced concreae arch bridg[illegible] across the canal at Roache Ave. Edward [illegible] Ramsey is City Clk.

SOUTH BEND, IND.—Bi[illegible] will be received by the County Auditor unt[illegible] July 26 for constructing a concrete arch [illegible]idge with four spans, 105 ft. each; estim[illegible]ted at $65,000. William S. Moore is City E[illegible]r.

CHICAGO, ILL.—Press reports state that bids will soon be asked f[illegible] constructing a bridge across the Chicago River, at Washington St. Estimated cost $360,000. L. E. McGann is Comr. of Pub. Wks.

WOODLAND, ILL.—Bids will be received at the Town Hall, Woodland, until 1 p. m., July 12, for the construction of a 3-span concrete bridge in Belmont Township, Iroquois County. The structure will be 161 ft. long; roadway, 18 ft., in the clear. Two plain concrete piers. Distance from finished roadway to bottom of pier, 36 ft.; two reinforced concrete abutments, 19 ft. high; length of wings, 16 ft. Estimated amount of concrete in structure, 656.4 cu. yds.; reinforcing steel, 79,265 lbs.

PLEASANT HILL, ILL.—Bids will be received by J. M. Sweetman, Town Clk., until 10 a. m., July 8, for constructing a 30-ft. span reinforced concrete bridge in Ross Township, Pike County.

OTTAWA, ILL.—Bids will be received by A. E. Bach, County Clk., until 1 p. m., July 20, for constructing a 30-ft. concrete bridge in Mission Township. The structure will require about 104 cu. yds. of concrete and 11,523 lbs. of reinforcing steel.

FOND DU LAC, WIS.—The VULCAN MANUFACTURING CO., Fond du Lac, Wis., has been awarded the following bridge contracts: Town of Burks, LaCrosse County, Wis., two-span bridge, 130 ft. long; Camp Douglas, Wis., single span, 100 ft. long; Townships of Campbell and Bangor, La Crosse County, and Barre, Fond du Lac County, single span bridge, 65 ft. long. John W. Immel is Pres.

✚CLINTON, IOWA.—The contracts for constructing bridges 8, 16 and 22 have been awarded to the JOLIET BRIDGE & IRON CO., Joliet, Ill., at $6,910.

TOPEKA, KAN.—The contract for furnishing and erecting one 120-ft. steel bridge across Wakarusa Creek, near Wakarusa, has been awarded to the TOPEKA BRIDGE & IRON CO., Topeka, at $5,800.

FARGO, N. DAK.—Bids will be received by the Board of County Commissioners at the office of Addison Leech, Audr. of Cass County, until noon, July 19, for constructing the following bridges: 20-ft. wooden bridge between sections 29 and 30, Empire Township, including wings; 22-ft. wooden bridge between section 30, Empire Township, and section 25, Ayr Township, including wings; 32-ft. concrete bridge in the village of Tower City, with 10-ft. abutments and 8-ft. wings; 20-ft. concrete bridge between section 36, Everest Township and section 1, Maple River Township, with 7-ft. abutments, steel stringers and concrete driveway.

DE WITT, ARK.—Bids will be received by I. C. Gibson, Clk., Arkansas County, until 10 a. m., July 22, for erecting the following bridges: one 30-ft., one 80-ft., one 180 ft., one 100 ft., one 544 ft., one 225 ft., one 80 ft., one 80 ft., one 50 ft., one 45 ft. and 106 ft., one 305 ft.; all to be of steel, 16 ft. wide, with concrete abutments and footings. Plans are on file in office of L. C. Smith, County Judge, De Witt.

FRESNO, CAL.—A. F. Robinson, Bridge Engr., for the Santa Fe R. R., Chicago, Ill., has made a tour of the California lines and recommends the construction of bridges as follows: Concrete bridge over Kings River at Reedley; concrete bridge 1½ miles in length between Anwalt and Middle River.

LAKEPORT, CAL.—Bids will be received by the Clerk of the Board of Supervisors until 10 a. m., July 10, for furnishing all materials, for two bridges in road District No. 3, in accordance with plans and specifications on file with the clerk. Bridge across Middle Creek, 101 ft. steel structure; bridge across Clover creek, 30-ft. steel structure. Shafter Mathers is Clk.

✚LOS ANGELES, CAL.—A contract has been awarded to CHARLES W. CORBALEY, Wilcox Bldg., Los Angeles, to build a single track pile trestle bridge 320 ft. long across the Verdugo Wash on the Glendale-Burbank extension of the Pacific Electric Ry. Co. George E. Pillsbury, Los Angeles, is Ch. Engr.

NEWPORT BEACH, CAL.—The Newport Bay Land Co. has secured permission of the Government to construct a reinforced concrete bridge 180 ft. long.

PASADENA, CAL.—We are officially advised that bonds for $200,000 have now been voted for constructing the proposed bridge over the Arroyo Seco. The bridge will be built jointly by Los Angeles County and the City of Pasadena. S. J. Van Ornum is City Engr., and Herman D[illegible]r, City Clk.

VACAVILLE, CAL.—Bids will be received until July 11, for constructing two reinforced-concrete bridges and one culvert, estimated at $15,200. Plans were prepared by F. A. Steiger, City Engr.

BUILDINGS.

*(*Denotes that this work is advertised in Engineering News.)*

BANGOR, ME.—We are officially advised that the city of Bangor intends to erect a high school building at approximate cost of $175,000 or $200,000. Architect not yet selected. C. W. Mullen is Chn. of the Bldg. Com.

BANGOR, ME.—A 6-story apartment house to cost $80,000 is to be built on Franklin St. Frank W. Durgin is owner.

MANCHESTER, N. H.—The sum of $85,000 has been appropriated for new school buildings.

BOSTON, MASS.—An 18-apartment block to cost $50,000 is about to be erected on Harvard Terrace, Brighton District, for Dwight Baldwin. To be 181 x 55 ft. E. T. Stewart, 144 Congress St., is the Arch.

BOSTON, MASS.—The site for the high school of commerce has been chosen in the Back Bay Fens on Boylston St. Chas. Logue is Chn. of the School House Comn.

A 10-story office building is to be erected on Federal near Franklin St. Chas. W. Whittier is Agt.

The following school house work is proposed: A new High School of Practical Arts on Moreland St., a new school in the Pierce District, an addition to the Samuel Adams School, an addition to the Brighton High School, and an addition to the Normal School.

EVERETT, MASS.—Bids will be received until July 7 for additions to the Parlin Memorial Library. Nelson P. Brown, Everett Associates Bldg., is Secy. Trustees.

QUINCY, MASS.—The following bids were received by the County Commissioners June 29 for building the Norfolk District court house: Wm. Crane, Boston, $60,746; Dennis F. Crowley, Quincy, $63,425; McGahey, O'Connor & Bro., Cambridge, $65,000; Wm. H. Keyes & Co., Boston, $67,923; John W. Duff, Boston, $68,235; A. M. & C. J. Buckley Co., Worcester, $69,714; Connors Bros., Lowell, $70,000; Shawmut Constr. Co., Boston, $70,700; Woodbury & Leighton Co., Boston, $70,745; C. S. Cunningham & Son, Lynn, $71,200; H. R. Converse & Co., Boston, $71,615; Hooper-Waters Co., Boston, $71,987; Geo. Howard & Son Co., Brockton, $77,300; A. Varnerin Co., Boston, $77,373; W. Fillmore Co., Cambridge, $78,370. The contract has not been awarded.

NAHANT, MASS.—Bids will be received until noon July 14 by the Building Committee for the erection and completion of the town hall situated on the corner of Nahant Rd. and Pleasant St. Plans and specifications were prepared by Arthur H. Vinal, Arch., 19 Milk St., Boston, Mass.

HARTFORD, CONN.—Bids will be received by the Board of Contract and Supply until July 10 for constructing a fire station. Plans were prepared by Whiton & McMahon, 49 Pearl St.

WATERBURY, CONN.—The engineers of the Connecticut Co. are completing plans for a large car barn and office building to be erected on the company's property on West Main St. The structure will be 182 x 360 ft., one and two stories high, of brick and steel fireproof construction with concrete foundation and will provide 14 tracks for car storage on the ground floor and on the second floor, offices for the superintendent, clerks and despatchers; also assembly and locker rooms with toilets and shower baths for the employees. A new system of tracks will be required in West Main St. in front of the new barn. C. C. Elwell is Ch. Engr., at New Haven, Conn.

ALBANY, N. Y.—Bids will be received by the Board of Contract and Supply until July for constructing a school on Washington St.

The Hudson Navigation Co. plans to erect a 1-story concrete building on Steamboat Sq., Albany, with ticket office, waiting rooms, etc., and a roof garden for the accommodation of patrons of the line. The company expects to spend $50,000 on the building.

MALONE, N. Y.—The Board of Trustees of the Alice Hyde Memorial Hospital (John P. Badger, Pres.) will receive bids until July 8 for the erection of a hospital building according to the plans of Williams & Johnson, of Ogdensburg, N. Y.

NEW YORK, N. Y.—Plans were filed for a 12-story fireproof loft and store building, southwest corner of Fourth Ave. and 30th St., for the Thirtieth St. Co., at a cost of $500,000. It will have a frontage of 89.6 ft. in the avenue by 100 ft. in the street.

NEW YORK, N. Y.—Plans are being prepared by Alfred Joseph Bodker, 25 West 32d St., for the construction of a 12-story apartment house at 383-387 Park Ave. The Montana Realty Co., 135 Broadway, is owner.

Plans have been prepared by William H. Whittal, 55 Liberty St., for the construction of a 12-story loft and store building at Fourth Ave. and 30th St. The Irons & Tod Co., 350 Fifth Ave., is owner. The cost is about $50,000.

Louis E. Jallade, 37 Liberty St., will prepare plans for the construction of an edifice at Broadway and 114th St. for the Fourth Avenue Presbyterian Congregation.

Plans have been prepared by York & Sawyer, 156 Fifth Ave., for the construction of a bank and office building at 146 Broadway. The Guaranty Trust Co., 28 Nassau St., is owner. The general contract is held by MARC EIDLITZ & SON, 489 Fifth Ave.

Plans are being completed by Schwartz & Gross, 347 Fifth Ave., for the construction of a 12-story apartment building for the Putnam Construction Co., 43 Cedar St. The probable cost is $200,000.

Plans are being prepared by Shampan & Shampan, 772 Broadway, Brooklyn, for the construction of an apartment house at Eighth St., east of Fifth Ave., Brooklyn. The Rogers Improvement Co. is owner.

The construction of a restaurant building at Broadway and 26th St. for J. B. Martin is considered. The site has not yet been determined. The cost will be about $1,000,000.

UTICA, N. Y.—We are officially informed that the contract has been awarded to the Turner Construction Co., 11 Broadway, New York City, for a reinforced concrete grocery warehouse for Johnson & Murrey, to be erected in Utica, N. Y., 300 x 32 ft., four stories in height; floor loads 250 lbs. Linn Kinney is Arch.

ROCHESTER, N. Y.—A company to be known as the Rochester Mansions Co., has recently been formed for the purpose of erecting a 4-story apartment house on the east side at a cost of about $100,000.

✚WEST POINT, N. Y.—The contract has been awarded to GEORGE A. FULLER CO. for the construction of another addition to the group of academic buildings at West Point. The structure will be 4-story, basement, and sub-basement building, 300 ft. long and about 150 ft. in depth, and will be erected on a site opposite the old West academic building. Later it will be connected with the other buildings by a memorial arch, which will serve as the main entrance to the parade grounds. The cost will be about $550,000. Plans were prepared by Cram, Goodhue & Furguson.

YONKERS, N. Y.—The Ruth Realty Co. will erect six 3-family houses on Elliott Ave.

BUFALO, N. Y.—Esenwein & Johnson, 781 Ellicott Square Bldg., have completed plans for a 2-story casino building, 50 x 100 ft., brick and concrete construction, to be erected by the city of Buffalo in Cazenovia Park, South Buffalo. Estimated cost, $35,000.

✚MOSIER & SUMMERS, 1266 Seneca St., have received general contract for erection of a 1-story warehouse and storage building to be erected by the American Agricultural Chemical Co. at its plant at Lewis and Lyman Sts. and the Erie R. R. Cost, $40,000.

✚The general contract for construction of a 3-story and basement store and office building, 45 x 100 ft., brick and structural steel, to be erected at 511-515 Main St. by John H. Smith, Dun Bldg., has been let to PETER H. FRANK, 229 Dewey Ave., at $38,000. The BUFFALO STRUCTURAL STEEL CO. has contract for steel work. Colson & Hudson, 35 Dun Bldg., Archs.

WEST NEW YORK, N. J.—An apartment house will be erected by the Gibraltar Realty Co. at 13th St. and Bullsferry Rd.

SOHO, N. J.—Bids will be received by the Public Building Commission of Chosen Freeholders of Essex County, until July 7 for constructing a nurses' home at the Essex County Isolation Hospital. Louis E. Voorhees is Chn.

✚TRENTON, N. J.—The contract has been awarded to JOHN P. GILL, Princeton, N. J., for erecting a 60-ft. extension to the front of the state house at $56,950.

BUTLER, PA.—Bids will be received until July 8 by Stewart & Boyer, Butler, Pa., for the construction of a school house in Washington Township, Butler County, Pa.

PHILADELPHIA, PA.—Plans have been prepared by Thomas Churchman & Molitor, 13th and Walnut St., for the construction of a parish house for the St. Pauls Protestant Episcopal church. The building will be brick and terra cotta, 40 x 84 ft. and cost $40,000.

PHILADELPHIA, PA.—Plans have been finished by Bunting & Shrigley, 603 Chestnut St., for the 5-story brick and concrete building, 140 x 143 ft., to be built on the site of the old Orange St. Meeting House, at Locust St. and Washington Sq., for the Wimer Atkinson Co.; estimates will be asked for shortly.

✚PHILADELPHIA, PA.—The contract for the artillery ammunition assembling shop and scrap storehouse buildings to be built at Frankford Arsenal, has been let to JOHN W. EMERY, 1524 Sansom St. The cost will be about $47,000, the War Dept. having decided to build the storehouse larger than was originally intended.

PHILADELPHIA, PA. — STUCKERT & SLOAN have been awarded the contract for th erection of a 3-story reinforced concrete building at Front and Tasker Sts., for the Atmore & Son Co.

PHILADELPHIA, PA. — Cramp & Co., Commonwealth Bldg., were granted a permit for a $300,000 office building for the Fire Association at the northwest corner of Fourth and Walnut Sts. The plans provide for a 6-story steel frame structure, with exteriors of white marble. The dimensions will be 53 x 80 ft. Edgar V. Seeler, Real Estate Trust Bldg., is the Arch.

WILKES-BARRE, PA.—Plans have been filed for the erection of a 3-story brick building to be erected by Herman Stakulsky on South Washington St., between the Campbell and Lampman buildings. It will be of brick, with stone trimmings and will cost in the neighborhood of $40,000. Plans were prepared by Reilly & Schroeder, Wilkes-Barre.

BALTIMORE, MD.—Archs Owens & Sisco have been selected to draw the plans for the construction of a warehouse and store building for the Baltimore News Co., at 227 North Calvert St., formerly the Emerald Hotel. According to tentative plans, the present building will be razed and a 5-story structure of brick, stone and granite will be erected. The Baltimore News Co., is now at 318 West Baltimore St.

WASHINGTON, D. C.—Plans for the construction of an endowment building immediately east of the Congressional Library by the International Moral and Social Commission ,are being made by the commission. Representative Richard P. Hobson is Pres. of the Com. It has been decided that when $100,000 has been raised construction work will be begun, although the total cost of the building will be $500,000.

Bids were received on June 26, by Wood, Donn & Deming, Archs., Washington, D. C., for the construction of an electrical laboratory at the Bureau of Standards, Washington. The lowest bid was that of J. E. & A. L. Pennock, Philadelphia, at $169,000.

WASHINGTON, D. C.—Bids were received as follows, on June 29, by the Commissioners of the District of Columbia, for the construction of a Normal School: Hoge & Luebkert, $223,842; Gormley & Poynton, $225,000; Melton Construction Co., $217,725; A. L. Smith, $217,300; George E. Wyne, $216,900; Arthur Cowsill, $233,760; Davis Construction Co., $219,440; Allen T. Howison, $218,900. Also for an eight-room school building at 13th and R Sts., S. E.: W. H. McCray, $67,500; McKay & Morris, $66,361; Allen T. Howison, $60,388; W. E. Mooney, $67,715; Hoge & Luebkert, $61,272; Skinker & Garrett, $59,818. All bidders of Washington, D. C.

ARLINGTON, VA.—The following bids were received on June 26 at the Bureau of Yards & Docks, Navy Dept., Washington, D. C., for wireless building at the U. S. Reservation, Arlington, Va. Bids received on June 26: James L. Parsons, Union Trust Bldg., Washington, D. C., item (1) $80,500, (2) —— deduct (3) $392, deduct (4) $487, deduct (5) $660, deduct (6) ——, deduct (7) $500. Davis Construction Co., Inc., Union Trust Bldg., Washington, D. C., item (1) $73,900; deduct (2) $660, deduct (3) $200, deduct (4) $660, deduct (5) $400, deduct (6) $1,000, deduct (7) $500. Arthur Cowsill, 723 15th St., N. W., Washington, D. C., item (1) $68,883, add (2) $300, deduct (3) $530, deduct (4) $640 deduct (5) $700 deduct (6) $230 deduct (7) $460. The Upton-Smoot Construction Co. Inc., 902 F St., Washington, D. C., item (1) $78,784, deduct (2) $1,000, deduct (3) $65, deduct (4) $700, deduct (5) $500, deduct (6) $1,000, deduct (7) $550. Penn Bridge Co., 312 Bond Bldg., Washington, D. C., item (1) $70,617, (2) $1,800, (3) $850, (4) $842, (5) $1,200, (6) $280, (7) $250. The Melton Construction Co., Inc., Builders' Exchange, Washington, D. C., item (1) $69,890, (2) $400, (3) $185, (4) $800, (5) $350, (6) $1,250, (7) $475.

SUFFOLK, VA.—Bids were received as follows on June 28, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post office at Suffolk, Va.: (a) limestone, (b) sandstone: Conners Bros. Co., Lowell, Mass., (a) $73,900, (b) no bid; George Leigh & Bros., Louisa, Va., (a) $71,054, (b) $72,654; Ambrose B. Stannard, New York, (a) $74,500, (b) $76,500; J. H. Brinson, Hampton, Va., (a) $66,740, (b) $67250; E. Hart, Norfolk, Va., (a) $74,839; King Lumber Co., Charlottesville, Va., (a) $77,400, (b) $80,000; Rogers & Kaiser, Chicago, (a) $85,940, (b) $88,940; Holladay & Crouse, Queensboro, N. C., (a) $73,930, (b) $76,430; Josepu Seay & Co., Goshen, Va., (a) $69,400, (b) $71,400; John G. Unkefer & Co., Minerva, Ohio, (a) $67,296; Westchester Engineering Co., New York, (a) $72,300, (b) $75,300; Harmon Bros., Williamsport, Pa., (a) $67,800, (b) $70,200; Newport Contracting & Engineering Co., Newport News, Va., (a) $68,700, (b) $74,000.

ALBANY, GA.—See item under Water Supply—Irrigation.

KEY WEST, FLA.—Bids will be received until July 18 by the Department of Agriculture, Washington, D. C., for erecting a 2-story cement building for the Weather Bureau at Key West.

DECATUR, ALA.—Bids will be received by the Mayor until July 11 for erecting a city hall. Plans were prepared by R. H. Hunt, Chattanooga, Tenn.

OSKALOOSA, LA.—Bids will be received by the City Council until July 24 for constructing a city hall. T. H. Carlin is City Clk.

✚MIDDLESBORO, TENN.—The contract has been awarded to L. A. GALYON & CO., Knoxville, for the construction of the proposed city hall building. The following bids were received: D. P. Phipps, of Newport News, Va., $46,900; L. A. Galyon & Co., Knoxville, $46,034; G. L. Hunt & Sons, Middlesboro, $44,987.

ATHENS, OHIO.—Bids will be received until July 21 by W. H. Justice, Clk. Board of Education for constructing a 5-room addition to the school in Beach City, Ohio.

ATHENS, OHIO.—Bids will be received by the Board of Education until July 15 for the construction of a school house. Plans have been prepared by L. G. McConkey, Athens, Ohio.

CLEVELAND, OHIO.—The Board of Education will be received until July 10 for constructing the Miles school.

COLUMBUS, OHIO.—The Kiser, Houser & Hoe Co. will erect a 3-story reinforced concrete building on Ludlow St. The building will be 100 x 100 ft. and will cost about $75,000. This company recently lost a building on Neilston St. by fire.

COLUMBUS, OHIO.—Bids will be received by the Ohio State Board of Agriculture, Columbus, until July 10, to the sheep exhibit building at the Ohio State Fair grounds, Columbus, Ohio. Plans were prepared by Dawson & Holbrook, Outlook Bldg., Columbus, Ohio.

MASSILLON, OHIO.—Plans and specifications are being prepared in the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post office at Massillon, Ohio. The date of opening is not yet set.

LOWELLVILLE, OHIO.—Bids will be received by W. J. Maurice, Clk. Bd. of Education of Poland Township until July 18 for constructing a school.

TOLEDO, OHIO. — Bids were received for the building of the new market house on South Erie St. and S. J. Picket was the lowest of five bidders with a bid of $79,040. C. J. Bergeron bid $79,842.60; M. Rabbit & Son, $93,166.90; H. J. Speiker, $90,079.39; and A. Bentley, $94,413. The bids do not include plumbing, electric wiring or heating which will increase the cost several thousand dollars. It was estimated that the cost would be $90,000 and council appropriated $11,000 for the work.

ALLIANCE, OHIO.—All the bids opened June 26 for the erection of a school building were rejected by the Board of Education because they were too high. The work will be readvertised.

✚COLUMBUS, OHIO.—The contract for the erection of a business block on East Long St. for Dr. Hamilton has been awarded to CHENEY & ARCHIBALD, Chicago, Ill., at their bid of $40,550, exclusive of plumbing.

LIMA, OHIO.—Bids will be received by the Board of Trustees of the Lima State Hospital, July 29, for the necessary labor and material for completing infirmary (A), infirmary (B), Woman's pavillion and isolation pavillion for the State Hospital. George E. Whitney is Secy. of the Board of Trustees.

PRINCETON, IND.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until Aug. 3, for the construction, complete (including plumbing, gaspiping, heating apparatus, electric conduits and wiring and lighting fixtures) of the U. S. post office at Princeton, Ind. Drawings and specifications may be obtained from the Custodian of site at Princeton, Ind., or at the discretion of the Superv. Arch.

PORT HURON, MICH.—The hardware store of Beard, Campbell & Co. was completely destroyed by fire on June 28, along with several other buildings. The complete damage done by the fire amounted to $125,000.

CHICAGO, ILL.—Bids will be received until July 31 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction, complete (including plumbing, gaspiping, heating apparatus, electric conduits and wiring, and lighting fixtures) of the U. S. post office at Chicago Heights, Ill. Drawings and specifications may be obtained from the Custodian of site at Chicago Heights, Ills., or at the discretion of the Superv, Arch.

CHICAGO, ILL.—Frederick H. Barlett & Co. have purchased the northwest corner of Cottage Grove Ave. and 45th St., from Fannie E. Sweet. Two 4-story buildings will be erected on the site at an estimated cost of about $150,000.

CHICAGO, ILL.—A building three stories in height to cost betwen $75,000 and $80,000 will be erected on the premises at 1343-49 Milwaukee Ave. to be occupied as a department store by Simon Arkin.

ROCKFORD, ILL.—It is reported that the Nelson Hotel Co., will erect an addition to the Nelson house. The new addition will be built south of the present building. Provision will be made for 100 rooms. The building will be eight stories high, two stories more than the present Nelson. It will have a frontage of 56 ft. on Main St. and extend 150 ft. to Wyman St. The addition will cost about $200,000.

MILWAUKEE, WIS.—Charles F. Perry, Superv. Industrial Education, announces that plans for the proposed new $210,000 Boys' School of Trades building at Greenbush, Hanover, Virginia and College Sts., will be ready Aug. 1 and bids will be taken after that time. Frank M. Harbach is Secy. and Business Mgr. Bd. of School Dir.

WAUSAU, WIS.—The Common Council has accepted plans prepared by Van Ryn & DeGelleke, Caswell Block, Milwaukee, Wis., for the proposed new $50,000 City Hall. Bids will be called for at once, and work will start about Aug. 1.

MT. VERNON, IOWA.—The Board of Education will receive bids until July 20 for constructing a 2-story school. Plans by R. R. Mayberry, Cedar Rapids, Iowa.

HOLDINGFORD, MINN.—The School Board will receive bids until July 7 for enlarging the school here. Otto J. Stein is Clk.

MINNEAPOLIS, MINN.—The Minneapolis Transfer Co., will erect a $100,000 warehouse at Hennepin Ave. and 28th St. The structure will be of reinforced concrete six stories high, 116 x 90 ft. according to the plans.

CLAY CENTER, KAN.—Bids were received as follows on June 26, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post office at Clay Center, Kan.: (a) limestone, (b) sandstone: Dieter & Wenzel Co., Wichita, Kan., (a) $63,910; (b) $65,510. Rogers & Kaiser, Chicago, (a) $60,940; (b) $62,840. Interstate Construction Co., Saginaw, Mich., (a) $66,898; (b) $66,989.

HUTCHINSON, KAN.—Bids will be received by Frank Vincent, Mayor, until July 7 for constructing a public building at Walnut St. and Ave. A.

✚CHEYENNE, NEB.—The contract for the erection of the $50,000 Cheyenne County Court House was awarded, on June 27, to C. E. GOODHAND, of Ord, Neb., his bid being $49,950. Burke's gray sandstone was adopted. H. T. Darin is County Clk.

JUD, N. DAK.—Bids will be received at the office of the First State Bank of Jud, until July 27 for constructing a school. Haxley & Gillespie, Fargo, are Archs.

LEWISTOWN, MONT.—Bids will be received until July 17 by the Board of Education for constructing the Central school. Plans were prepared by Wasmansdorff & Eastman, Lewistown, Mont.

ST. LOUIS, MO.—According to reports a 4-story store and loft building, to cost about $50,000, will be erected at 810-16 North Sixth St. by the Benjamin Franklin Realty Co. on ground owned by that company. This corporation is a holding company for owners of the Famous department store. The ground was acquired several years ago by the Famous store, then under different ownership, with the intention of using it for an addition to the store which was then located at Broadway and Morgan St. The Sixth St. plat, about 75 ft. front abuts on the old Broadway store of the Famous.

CORSICANA, TEX.—Bids will be received until July 6 by W. W. Clopton, Secy.-Treas. I. O. O. F. for the construction of an auditorium building.

✚HARRISBURG, TEX.—A warehouse having a capacity of 43,000 bales of cotton is to be erected for the Magnolia Warehouse & Storage Co., the contract having been awarded by WELD & NEVILLE, who con-

trol the company. The structure will be of reinforced concrete and brick, and will cost $145,000. The new warehouse, which it is stated will be the largest in Tex.

BOISE, IDAHO.—Bids will be received by the Board of Capital Commissioners until July 27 for constructing a capital building for the state of Idaho. Archs. are Tourtellotte & Hummel, Overland Bldg., Boise.

✚SALEM, ORE.—WELCH BROS., of Salem, have been awarded the contract by the State Board of the State Insane Asylum, at Salem, to construct the south wing of the receiving ward. The wing will be two stories high, with basement and will be 70 × 160 ft. in size. The exterior will be constructed of brick with terra cotta trimmings. The building will contain 13 ward rooms, a living room, dining-room and kitchen on each floor, and will be equipped with dumb waiters and other conveniences. Lazarus & Logan, Portland, Archs., prepared the plans and specifications and supervise the construction of the building. The cost is about $47,000.

LOS ANGELES, CAL.—A number of local investors headed by Henry Loewenthal, are planning the erection of a $300,000 apartment houst on the corner of West Ninth and Beacon St. The structure will be eight stories high, of reinforced concrete, absolutely fireproof, and will be equipped with all modern conveniences. As designed, the building will contain 250 rooms and 175 bathrooms, a large lobby and two storerooms on the main floor. The estimated cost is $255,000.

✚LOS ANGELES, CAL.—A building permit has been granted for the construction of an office building for the American Institute of Bankers. The general contract is held by the ALTA PLANING MILL CO. The building will be erected on Hope St, between Sixth and Seventh St., at a cost of $150,000, from the plans by Parkinson & Bergstrom, Archs.

SACRAMENTO, CAL.—Plans have been prepared by Cuff & Diggs for the erection of a $300,000 courthouse for Yolo County. In the proposed building will be included the county jail and hall of records. The building will be located in the center of a full block in the city, occupied by the present inadequate buildings. It will be of fireproof construction, with stone exterior, marble, wainscoting and tile floors. The trimmings will be of metal and elevators and other modern appurtenances will be installed.

SAN FRANCISCO, CAL.—Complete plans and drawings of the new U. S. sub-Treasury for San Francisco were received. The structure will be erected on the southwest corner of Sansome and Pine Sts., with the main front consisting of a massive colonnade and entrance on Pine. The plans of the Government's Arch., J. Milton Dyer of Cleveland, Ohio, provide for a building on classic lines. It will be set back 16 ft. from the street lines on both Sansome and Pine Sts. The building will be of marble and granite and of the highest type of construction throughout. The height will be about 45 ft., admitting of three stories. It will cost $500,000.

SAN FRANCISCO, CAL.—The plans for the bank building, which is to be erected in Sacramento by the Farmers & Merchants Bank of Sacramento, have been completed by Arch. Charles S. Kaiser, Mechanics' Institute Bldg., and will be put out for figures soon. The new structure will cost in the neighborhood of $150,000.

SAN FRANCISCO, CAL.—Arch. Willis Polk has completed the working drawings for the D. O. Mills Bank of Sacramento. The finished drawings have been accepted by the bank officials and construction will be started at once. The cost of the buildings has been estimated at $250,000. The contracts will be let separately.

WILLOWS, CAL.—Work of tearing down the building at Tehama and Walnut Sts. has started to make way for the proposed $60,000 bank structure.

WATER SUPPLY—IRRIGATION.

(✚*Denotes a contract awarded.*)

✚OSSIPEE, N. H.—Bids were received as follows on June 24 by the Ossipee Water & Electric Co. for furnishing and laying about 18,000 lin. ft. of c.-i. water pipe of various sizes as well as hydrants and other supplies. Laying pipe. (a) 6-in. and 8-in. per ft., (b) 2-in., (c) rock excavation per cu. yd., (d) setting hydrants, (e) gates. Dudley & Sawyer, Manchester, N. H., are Engrs. M. Trampolia, Concord, N. H., (a) 35 cts., (b) 28 cts., (c) $3.50, (d) $1.50, (e) 50 cts.; Frank H. Cowin Co., Boston, Mass., (a) 33 cts., (b) 27 cts., (c) $3, (d) $2, (e) 50 cts.; Abbett & Bowes, Cohoes, N. Y., (a) 25 cts., (b) 23 cts., (c) $4, (d) $2, (e) $1.50; C. E. Trumbull & Co., Boston, Mass., (a) 28 cts., (b) 16 cts., (c) $3.50, (d) $1, (e) $1; John E. Palmer, Boston, Mass., (a) 24 cts., (b) 19 cts., (c) $4, (d) $4, (e) $2; G. FURRULLO, Boston, Mass., (a) 18 cts, (b) 14 cts., (c) $3.48, (d) 90 cts., (e) 33 cts. (awarded contract).

For furnishing c.-i. pipe: Walworth Mfg. Co., $23.90 per ton; U. S. C. I. P & F. Co., $23.65; John Fox, Jr., $23.50; T. Morse & Co., 23.33; Donaldson Iron Co., $23.23; R. D. Wood & Co., $22.95; C. MILLAR & SON CO., Utica, N. Y., $22.90 (awarded contract).

MEDFORD, MASS.—Bids will be received until July 12 for one carload of 8-in. c.-i. pipe. A. M. Stickney is Chn. Water Bd.

✚WATERBURY, CONN.—Bids for stripping the surface soil from the basin of the new Morris Reservoir, in the towns of Morris and Litchfield, were received by the Board of Public Works on June 27 as follows: R. H. Newell, Uxbridge, Mass., $148,980; Coleman Bros., Boston, Mass., $137,230; Irving B. Holley, for Mascetti & Holley, Torrington, Conn., $132,150; George Tracy, Waterbury, $138,300; FRED T. LEY & CO., Springfield, Mass., and Waterbury, Conn., $127,400 (awarded contract).

✚NEWBURGH, N. Y.—Bids were received by the Board of Water Commissioners on June 26 for the completion of the contract for laying a 30-in. water main, together with work incidental thereto. We are officially advised that the following bids were opened: HALLOCK, ANGLE CO., INC., $9,609 (awarded contract); Abner M. Harper, $9,987; Michael R. Spino, $14,263; F. N. Lewis, $14,450. William J. Blake, Jr., is City Engr. Curtis Stanton is Supt. W.-Wks.

NEW YORK, N. Y.—Bids will be received until 2 p. m., July 14, by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, for hauling and laying water mains and appurtenances in various streets, east of the Bronx River, Boro. The Bronx; for making alterations and repairs to department building at 128 Worth St., Boro. Manhattan, and for furnishing, delivering and laying water mains and appurtenances in Gosman, Graham, 17th and Van Deventer Aves., Boro. Queens.

BUFFALO, N. Y.—George W. Fuller, Consult. Engr., 170 Broadway, New York, has submitted his report to the Water Commissioners of Buffalo concerning the proposed sterilization of the city water supply. The report provides for a structure 20 ft. wide and 60 ft. long adjacent to the old pumping station with necessary solution tanks, stirring arrangements and a device for properly mixing the solution of hypochloride of lime with the water and a small laboratory inside the building. Estimated cost, $27,000.

MIDDLEPORT, N. Y.—The village is considering the expenditure of $45,000 for the installation of a water-works system.

NIAGARA FALLS, N. Y.—Bids will be received by the Board of Water Commissioners until July 7 for laying new water mains in various streets. R. A. M. Clanathan is City Engr.

NEWARK, N. J.—See item under Bridges.

PITTSBURG, PA.—Bids will be received by the City Comptroller until 10 a. m., July 7, for laying 30-in. c.-i. hub and spigot and flanged water pipe and appurtenances, Arlington Ave.-Mission St. system, Mission St. supply main No. 1, upper connection, supplemental Contract to No. 1K; and for furnishing and delivering a runner shaft and appurtenances for 35,000,000-gallon centrifugal pump No. 2, Ross Pumping Station. Blue print copies of the contract plan and copies of the specifications and blank forms upon which to make the proposals can be secured at the General Office of the Department of Public Works, Room 432, Oliver Bldg., Pittsburg. Joseph G. Armstrong is Dir. Dept. Pub. Wks.

ALLENTOWN, PA.—Specifications are being prepared for a 12,000,000-gallon horizontal, cross-compound pumping engine.

HUNTINGDON, PA.—The Huntingdon Water Co., it is reported, has decided to construct a new reservoir. William Walker is Pres.

DELMAR, DEL.—The citizens on June 16 voted in favor of issuing bonds for the construction of a water-works system.

•RICHMOND, VA.—Bids will be received until 4 p. m., July 14, by the Commission on Water for furnishing and erecting two centrifugal pumps, piping and water meters. E. E. Davis is Supt.

GRAFTON, W. VA.—We are officially advised that the Riggs & Sherman Co., The Nasby, Toledo, Ohio, has completed a preliminary report to the city on the needs of the municipal water-works with estimates of cost of betterments recommended.

✚TARBORO, N. C.—The Town Board of Commissioners has awarded the contract to the EDWARDS CONSTRUCTION CO., of Tarboro, for water-works improvements. Gilbert C. White is Engr., Durham, N. C.

AUBURN, GA.—The citizens voted on June 15 $20,000 of bonds for the installation of water-works and sewers. J. B. McCrary, Atlanta, Ga., is Engr.

•AMERICUS, GA.—Bids will be received by the Mayor and City Council until July 17 for the construction of a reinforced concrete reservoir, 60 ft. in diameter by 13 ft. in depth. Plans and specifications are on file at the office of J. B. Ansley, City Engr.

✚RUSSELLVILLE, ALA.—W. W. MOORE of Birmingham, Ala., has been awarded the contract, it is reported, for constructing water-works and an electric light plant here at about $24,000.

HARTSELLE, ALA.—The city has issued bonds for the installation of a water-works system. The water will be taken from Short Spring, three miles distant. X. A. Kramer, of Magnolia, Miss, is Engr.

•McKENZIE, TENN.—Bids will be received until 2 p. m., July 27, by the Board of Aldermen and Mayor for the construction of a water-works system and electric light plant.

STURGIS, KY.—The town is considering the construction of a water-works system. A committee has been appointed to investigate the matter.

BEDFORD, OHIO.—The citizens have voted to issue bonds for $38,000 for laying water mains. The source of supply will be secured from the city.

CLEVELAND HEIGHTS, OHIO.—Bids will be received until noon, July 25, by H. H. Canfield, Village Clk., for furnishing the necessary labor and material for the construction of a 10-in. water main in Taylor Rd., from Mayfield Rd. to the Euclid Heights Boulevard. Plans and specifications may be seen at the office of the Clerk or at the office of the Pease Engineering Co., 921 Williamson Bldg., Cleveland, Ohio.

•COLUMBUS, OHIO.—Bids for furnishing the labor and materials, except as specified in Section 2, for laying c.-i. force mains and appurtenances in Sandusky, Scott and Grubb Sts. and under the Scioto River, in Franklin Township and in the city of Columbus, for the division of water, Contract 22, West Side Force Main, will be received by H. S. Holton, Dir. Pub. Ser., until noon, July 17, in accordance with the plans and specifications on file in the office of the Director, in the custody of W. W. Jackson, Supt. W. Wks., and from whom copies may be obtained. The approximate quantities follow: item 1, wet excavation, 2,100 cu. yds.; item 2, dry excavation, 4,500 cu. yds.; item 3, laying 36-in. c.-i. pipe, 3,800 lin ft.; item 4, laying 24-in. c.-i. pipe, 30 lin. ft.; item 5, laying 16-in. and 12-in. c.-i. pipe, 60 lin. ft.; item 6, laying 6-in. c.-i. pipe, 70 lin. ft.; item 7, concrete, 250 cu. yds.; item 8, brick masonry, 25 cu. yds.; item 9, setting air valves, five; item 10, twisted steel rods, 2,700 lbs.; item 11, manhole steps and tie-rods, 760 lbs.; item 12, iron castings, 7,400 lbs.; item 13, removing and relaying cement sidewalks, 1,600 sq. ft.; item 14, removing and relaying brick pavement, 90 sq. yds.; item 15, removing and relaying macadam, 80 sq. yds.; item 16, resetting curb, 30 lin. ft.

Bids were received by H. S. Holton, Dir. Pub. Ser. until June 26, for furnishing and delivering 945 tons of c.-i. pipe, 53 tons of bell and spigot special castings and four tons of flanged special castings. The contract has been awarded to the U. S. CAST IRON PIPE & FOUNDRY CO., of Columbus, at $26,445.

HUBBARD, OHIO.—The town has decided to issue $30,000 of bonds for the installation fo a municipal water-works plant.

✚EVANSVILLE, IND.—The city has awarded the contract for furnishing the valves for the filtration plant to the RENSSELAER VALVE CO., of Troy, N. Y., and the contract for furnishing approximately 250 tons of c.-i. pipe and specials to the U. S. CAST IRON PIPE & FOUNDRY CO., Rookery Bldg., Chicago, Ill. Alvord & Burdick, 1417 Hartford Bldg., Chicago, Ill., are Engrs.

SOUTH BEND, IND.—The Indiana & Michigan Electric Co. is considering building a 42-in. gravity intake to supply water to the steam plant. F. A. Bryan is Mgr., South Bend.

FLINT, MICH.—Bids will be received by the Board of Water Commissioners until July 12 for constructing a pumping station and filter plant, including intake, suction well and all building and filter equipment for eight 1,000,000-gallon filters, with sedimentation basins, clear well, etc. William G. Clark, 1050 The Spitzer, Toledo, Ohio, is Engr. Noted on June 29.

BARAGA, MICH.—The village is considering the installation of a water-works and electric light plant. Estimated cost, $35,000.

FLORA, ILL.—Bids will be received by the Board of Local Improvements until July 14 for the construction of water-works. J. S. Spiker, of Vincennes, Ind., is Engr.

CHICAGO, ILL.—The following contracts for furnishing and laying water service pipes have been awarded by the Board of Local Improvements: South Lincoln St., West Madison St., South Morgan St., West 37th Pl., DANIEL HARDIN, 3139 Indiana Ave.; Vincennes, Rd., DAVID WALSH, 6628 South Chicago Ave.; Sawyer Ave. system, JAMES J. RENN, 367 West Chicago Ave. Bids were opened on June 1.

Bids will be received until 11 a. m., July 6, by the city for furnishing and delivering to the Meter Mechanical Shops, 1330 Indiana Ave., seven 3-in., 15 4-in. and seven 6-in. velocity water meters. L. E. McGann is Comr. Pub. Wks.

BATAVIA, ILL.—Bids will be received by the City Council at the office of W. H. Reaney, City Clerk, until 5 p. m., July 10, for furnishing all materials and constructing approximately 3,829 ft. of 4-in. c.-i. water main, five 2-way hydrants, five 4-in. tees, three 4-in. crosses, eight 4-in. plugs, six gate-valves and surface boxes, according to plans and specifications on file in the office of the City Clerk.

HERRIN, ILL.—The citizens on June 19 voted to issue bonds for $33,500 for the construction of a water-works system.

STOCKTON, ILL.—The village will issue bonds for $4,500 for the purpose of extending and enlarging the water-works. George H. Brown is Village Clk.

LA CROSSE, WIS.—Bids were received on June 14 by the Commissioners of Public Works for constructing an extension to the water-works system, requiring 34,325 lin. ft. of 6 to 24-in. pipe, 92,000 lbs. of special castings, 109 valves, 6 to 24-in.; setting 24 hydrants and removing ten old hydrants; constructing reinforced-concrete piers and abutments for carrying a 16-in. water pipe across La Crosse River, and taking up and relaying in different locations 5,975 ft. of 6-in. pipe. The contract has been awarled, it is reported, to THOMAS E. WOOLEY, of La Crosse, at $33,157.

CHIPPEWA, WIS.—The bill, authorizing the Chippewa and Flambeau Improvement Co. to construct and operate a system of reservoirs at the headwaters of the Chippewa and Flambeau Rivers has been passed by the State Legislature.

NEW LISBON, WIS.—W. S. Sargent, City Clk., will receive bids until 1.30 p. m., July 19, for the construction of a complete water-works and electric light plant. A. H. Meyer is Engr., Appleton, Wis.

MASON CITY, IOWA.—The Council has decided to install a 4,000,000-gallon pump, 4-in. hydrants replaced by 8-in. and a new high duty pump at the pumping station.

CHEROKEE, IOWA.—We are officially advised that the city has adopted the plans and specifications of Lewis & Leeder, Lewis Block, Sioux City, Iowa, for the construction of a 200,000-gallon reinforced-concrete reservoir and repair of a 65,000-gallon reservoir, together with piping, etc. Bids will be received until 8 p. m., July 14.

CLARA CITY, MINN.—Bids will be received until July 11 by C. S. Swiers, Village Recdr., for constructing water-works. The Oscar Claussen Engineering Co., Engrs., German-American Bank Bldg., St. Paul, Minn.

✚CANNON FALLS, MINN.—The contract for c.-i. water pipe has been awarded to J. B. CLOW & SONS, Chicago, Ill., at $33 per ton for 4-in. and 3 cts. per lb. for specials.

✚DULUTH, MINN.—The contract has been awarded to JOHN A. JOHNSON for constructing a 5,000,000-gal. [illegible] reservoir for the middle system on [illegible] St. and Third Ave., East, at about [illegible]50. Bids were opened on June 15.

TACONITE, MINN.—Bids will be received until July 12 by J. E. D[illegible], Village Clk., for constructing a water-works system requiring about 9,837 lin. [illegible] of 8, 6 and 4-in. c.-i. pipe and 39, [illegible] and 8-in. gate valves, etc.

BLACKDUCK, MINN.—[illegible] city will ask for bids for 850 ft. of [illegible] and 550 ft. of 4-in. water pipe, two [illegible]rants and one angle elbow.

✚ELLSWORTH, MINN.—The contract has been awarded to P. N. [illegible]HAM, of Luverne, Minn., for constructing a 50,000-gallon reservoir here.

✚DULUTH, MINN.—The contract has been awarded to JOHN A. JOHNSON for constructing a 5,000,000-gallon tank at 13th St. and Second Ave., East, at $40,350.

FAIRMONT, MINN.—The following bids were received by the city for the construction of water mains: J. W. Turner Improvement Co., Des Moines, Iowa, $5,850; Fraser & Danforth, Rochester, Minn., $6,528; Roberts & Few, Brookings, S. Dak., $6,488; Des Moines Bridge & Iron Co., Des Moines, $6,186; W. D. Lovell, Minneapolis, Minn., $6,236. E. L. Lewis is City Clk.

✚MOUNTAIN LAKE, MINN.—The contract has been awarded to W. D. LOVELL, 1415 Eighth St., S. E., Minneapolis, Minn., for water-works improvements here, at $7,000.

✚EMPORIA, KAN.—The contract for the construction of water-works has been awarded by the city to the BUILDERS' MATERIAL SUPPLY CO., Scarritt Bldg., Kansas City, Mo., at $9,097. Fred H. Smith is City Clk.

CEDAR VALE, KAN.—The J. S. Worley Co., Reliance Bldg., Kansas City, Mo., has been engaged to prepare plans for the construction of water-works extension here.

SYLVAN GROVE, KAN.—The construction of the water-works system here has been estimated to cost $25,000. Engineer has not yet been employed. W. H. Breihan is City Clk.

✚ALBION, NEB.—The contract has been awarded by the city to PARKER BROS. for constructing an addition to the water plant.

ARAPAHOE, NEB.—W. H. Banwell, City Clk., will receive bids until 8.30 p. m., July 13, for furnishing a pump at the water-works and for the excavation of a pit for an additional well at the pumping station.

DECATUR, NEB.—The citizens have voted in favor of issuing $15,000 of bonds for the installation of water-works.

BRAINARD, NEB.—Bids will be received until July 7 by Frank E. Dus, Village Clk., for constructing a water-works system and rebuilding the electric light plant. Plans and specifications are on file at the office of the Alamo Engineering & Supply Co., Omaha, Neb.

CRAWFORD, NEB.—Clyde J. Hornsby, City Clk., is considering the construction of a water-works system. Estimated cost, about $24,000.

HAIGLER, NEB.—The citizens have voted to issue $8,500 of bonds for the construction and equipment of a water-works system and for fire protection. W. F. Wood is Town Clk.

IPSWICH, S. DAK.—Bids will be received until July 18 by the city for the construction of a system of water-works. Estimated cost, $23,000. The Dakota Engineering Co., Mitchell, S. Dak., is in charge of the engineering work. J. W. Arnold is City Engr. Noted on June 29.

•MILAN, MO.—The water-works to be constructed here will include the following: Constructing earth dam, 25,000 cu. yds.; furnishing and laying, approximately 4,000 ft. of 8-in., 11,968 ft. 6-in., 2,344 ft. 4-in. c.-i. pipe; furnishing and setting eleven new fire hydrants; resetting eight fire hydrants; furnishing and setting four 8-in., 25 6-in. and 21 4-in. valves; furnishing and laying 250 ft. of 8-in. vitrified tile; laying 900 ft. of 6-in. pipe; connecting up standpipe; repairing service pump. Plans and specifications are on file with the City Clerk and in office of Hiram Phillips, 1000 Third National Bank Bldg., St. Louis, Mo. Bids will be received until July 8. William Cochran, Jr., is Clk. Noted on June 29.

✚KANSAS CITY, MO.—The Board of Fire and Water Commissioners has awarded the contract for constructing a building for the city hypochloride plant at Quindaro to FLANAGAN BROS., at $7,100.

✚ST. LOUIS, MO.—The Board of Public Improvements has awarded contracts for furnishing c.-i. coated water pipes, c.-i. coated special castings, stop valves, post fire plugs and post fire plug top parts, to be delivered at the city yards, as follows: U. S. CAST IRON PIPE & FOUNDRY CO., Rookery Bldg., Chicago, Ill., water pipe, $74,907; BESSEMER FOUNDRY & MACHINERY CO., special castings, $12,418; ROE STEPHENS MFG. CO., stop valves, $9,188.

BENNINGTON, OKLA.—The City Council has decided to install a water-works system. Estimated cost, $20,000.

✚DEWEY, OKLA.—The city has awarded the contract to F. R. STONE for the construction of water-works here, at $36,350.

ENID, OKLA.—The city is considering improvements to the water-works system. Estimated cost, $6,000.

✚MUSKOGEE, OKLA.—The contract has been awarded to the U. S. CAST IRON PIPE & FOUNDRY CO., Rookery Bldg., Chicago, Ill., by the city for furnishing pipe for the new water-works system, at $83,000. The RENSSELAER VALVE CO., Troy, N. Y., secured the contract for valves, and J. B. CLOW, Chicago, Ill., the contract for fittings.

+NOWATA, OKLA.—The contract has been awarded to NELSON BROS, by the city for the construction of extensions to the water-works system, at $62,110. The work will include pump and boiler, pump and boiler engines, water line from the plant to town and a distribution system in the city. T. C. Hughes, of Tulsa, Okla., is Engr.

OKLAHOMA CITY, OKLA.—The City Commissioners are considering the construction of an additional dam, about 15 ft. high, near the water-works. William C. Burke is City Engr.

FORT MORGAN, COLO.—The farmers of Phillips County on June 19 voted to form an irrigation district, under the Old Fort reservoir system at Fort Morgan. It is proposed to take the water from a point three miles above Fort Morgan, carrying it down the river 20 miles, from where it will be conducted to land in Phillips County by canals. The district will cover 130,000 acres. Estimated cost, about $4,000,000. The reservoir will be constructed in the Platte River, and will have a capacity of about 130,000 acre ft. and be supplemented by another reservoir in Phillips County with a capacity of 10,000 acre ft.

*THISTLE, UTAH.—Bids were received on June 19, by the U. S. Reclamation Service, Provo, Utah, for constructing a dike, to be located about 35 miles northeast of Thistle. The work involves approximately the following: 88,000 cu. yds. of earthwork, 4,800 cu. yds. of rock, 12,100 cu. yds. of paving, 1,400 lin. ft. of drain tile, and 1,700 cu. yds. of reinforced concrete. The bids follow: Maney Bros. & Co., Boise, Idaho, $126,250; W. O. Morrison, Denver, Colo., $107,091; Ely Construction Co., Springville, Utah, $121,558; P. J. Moran, Salt Lake City, Utah, $154,398.

+BOISE, IDAHO.—The PHOENIX MFG. CO., of Eau Claire, Wis., has been awarded the contract by the Department of the Interior for the Boise irrigation project, for furnishing a Laursen automatic pumping engine with a capacity of 17,000 gallons per min. against a head of 105 ft.

HILLYARD, WASH.—The City Council has decided to improve the water system by replacing the old wooden mains with new steel mains.

WOODLAND, WASH.—The city has decided to issue bonds for the installation of a municipal water-works system.

WAPATO, WASH.—D. H. Redman, Engr., has submitted plans to the City Council for the construction of a municipal water plant.

+WENATCHEE, WASH.—The Wenatchee Valley Orchards Co. has awarded a contract, it is reported, to the FAIRBANKS-MORSE CO. for a pumping plant for its Sunnyslope property. Estimated cost, $20,000.

HERMISTON, ORE.—Plans have been prepared for the installation of a system of water-works here. Estimated cost, $49,000. The work will include an elevated tank distributing system and pumps. Noted on May 11 and June 8.

ALBANY, ORE.—The Oregon Power Co., it is reported, will probably construct a filtration plant here. Estimated cost, $30,000. D. C. Green is Mgr., Albany.

MERRILL, ORE.—Plans are being prepared for the construction of a water-works system here. E. S. Fitch is Mayor.

EXETER, CAL.—The city is considering the installation of a water-works system. Estimated cost, $40,000.

+GRANADA (Montara post-office), CAL.—The Shore Line Investment Co. has awarded the contract for the construction of a $200,000-gallon reservoir here to C. C. CHRISTENSEN.

+MONTREAL, QUE.—The BRITISH ELECTRIC PLANT CO., of Alloway, Scotland, has been awarded the contract for the pumping machinery, blowers and cranes for the new filtration plant at $40,250. Drummond, McCall & Co. are the local representatives.

+WELLAND, ONT.—The contract for constructing the flume, wheel pits, foundation and tail-race in connection with the construction of the new water-works system, has been awarded, it is reported, to W. H. WELLER, of St. Catherines, Ont., at about $40,000.

SEWERS.

(*Denotes that this work is advertised in Engineering News.*)

MILTON, MASS.—Bids will be received by the Board of Sewer Commissioners until 3 p. m., July 8, for constructing 3,000 ft. of pipe sewers. John Balch is Chn.

*WESTFIELD, MASS.—Bids for building sewers in Westfield will be received by the Selectment, at the office of the Town Clerk, until 2 p. m., July 13. The work includes about 7,280 ft. of pipe sewer from 6 to 24-in. in diameter, with manholes and catch basins. Oren E. Parks is Town Engr.

BOSTON, MASS.—Bids will be received until July 7 for constructing pipe sewers and drains in Kent St. L. K. Rourke is Comr. of Pub. Wks.

BUFFALO, N. Y.—Bids will be received by the Department of Public Works, Francis G. Ward, Comr., until July 7, for constructing 12 and 10-in. sewers in portions of various streets.

NEW YORK, N. Y.—Bids will be received by Alfred E. Steers, Pres. Boro. Brooklyn, until 11 a. m., July 12, for constructing a sewer in E. 31st St. and other streets, estimated cost, $31,374; and a sanitary sewer in West 23d St., from Surf to Mermaid Aves., etc., estimated cost, $7,842.

TROY, N. Y.—Bids for the construction of a 3-ft. sewer in Grand St., from Front St. to the river, have been received by the Board of Contract and Supply as follows: William G. Patterson, brick, $13.90 per ft., concrete $21; John Mullin, brick $6.65, concrete $9.85; Evelino Bros., brick $15.30; concrete $16.35; Edward Walsh, brick $8.70, concrete $11.65; William Behan, brick $9.97, concrete $11; J. W. Crutchley, brick $7.87, concrete $10.24. The bids have been referred to the Engineer and Commissioner of Public Works for examination.

PATERSON, N. J.—Bids will be received by the Board of Public Works until July 6 for constructing Section A of the proposed West Paterson and Totowa Main Sewer, comprising about 2,173 ft. of 36-in. pipe with necessary manholes, etc. H. J. Harder is City Engr.

SUMMIT, N. J.—Bids will be received by the Common Council until July 18 for constructing vitrified pipe sanitary sewers in Sections 1 and 2. J. E. Rowe is City Clk.

NEWARK, N. J.—See item under Bridges.

SEWICKLEY, PA.—Bids will be received by Minott M Baker, Act. Engr., Municipal Bldg., Sewickley, until 4 p. m., July 7, for constructing a sewer in Dickson St., to include the following: 500 lin. ft. 8-in. and 80 lin. ft. of 6-in. vitrified sewer pipe; eight Ys, 8 × 6-in. and one Y, 8 × 8-in. Plans and specifications are on file with the Engineer.

BALTIMORE, MD.—M. M. Elkan Co., Macon, Ga., was the lowest bidder, at $505,000, for the construction of storm-water drains in bed of Jones Falls, from a point 100 ft. south of Baltimore St. to Center St. The work will require 28,000 cu. yds. earth excavation, 900 cu. yds. rock excavation, 40,000 cu. yds. concrete masonry, 75 cu. ft. brick masonry, 4,000,000 lbs. of reinforcing steel, 12,000 sq .yds. granolithic resurfacing, 140,000 ft. of piles, 2,000 ft. foundation lumber, 50 tons cast-iron pipe, 900 lin. ft. vitrified sewer pipe and 40 tons structural steel.

WASHINGTON, D. C.—Bids will be received by the District Commissioners, Cuno H. Rudolph, Chn., until 2 p. m., July 12, for the construction of Section 1 of the Anacostia main intercepting sewer and Section of the Rock Creek main intersecting sewer, in the District of Columbia. Specifications, forms of proposals and necessary information may be obtained from the Chief Clerk, Engineer Dept., District Bldg., Washington.

*AMERICUS, Ga.—Bids will be received by the Mayor and City Council until July 10 for constructing about twelve miles of pipe sewers and appurtenances. T. N. Hawkes is City Clk. and Treas.; J. B. Ansley is City Engr.

WINCHESTER, KY.—Bids will be received by S. B. Tracy, City Clk., until July 7, for constructing a sewage clarification tank and sludge drying bed. Charles E. Collins, Philadelphia, Pa., is Consult. Engr., and S. H. Rutledge, City Engr.

COLUMBUS, OHIO.—Bids will be received by H. S. Holton, Dir. Pub. Ser., until July 17, for the construction of sewers in Chapel Alley, from Mitchell St. to Stokes Alley; in alley north of McCort Ave.; in alley west of Oakwood Ave., from a point opposite Lot 141, Aburndale Addition, to Schiller St.; in alley west of Parsons Ave., from Moler St. to alley north of Marion St.; sewer in Seventh St., from Markinson Ave. to the alley north of Morrill Ave.

COLUMBUS, OHIO.—See item under Streets and Roads.

COLUMBUS, OHIO.—Bids will be received by the County Commissioners until noon, July 26, for furnishing 1,874 lin. ft. 24-in. second-class vitrified sewer pipe; three 24-in. × 8-in. T branches; three 24-in. × 8-in. double T branches; one 24-in. × 15-in. Y-branch; one 24-in. × 12-in. Y-branch; also for constructing sidewalks for Broad St. bridge. F. M. Sayre is County Audr.

+DETROIT, MICH.—The Common Council have awarded the contract for the Fairview Public Sewer, Section 1, to JOHN GINZEL, 404 Buhl Bldg., at $32,700.

CHICAGO, ILL.—Bids will be received by the Board of Local Improvements, Charles A. V. Standish, Secy., until July 7, for constructing tile pipe sewers in portions of South Morgan, South Robey and other streets, and a brick sewer in North 40th Ave.

CHIPPEWA FALLS, WIS.—Bids will be received by the Board of Public Works, J. T. Tuohy, Chn., until 10 a. m., July 7, for the construction of a sewer, with appurtenances in the Alley of Block 21 of the original plat, and on West Columbia St., between Governor and Mansir Sts., in accordance with plans and specifications on file at the office of the City Clerk.

GREEN BAY, WIS.—Bids will be received by the City of Green Bay until July 11 for constructing approximately 15,000 lin. ft. of sewers, 38 manholes and 450 house connections. W. W. Reed is City Engr.

JANESVILLE, WIS.—The lowest bid received for general sewer construction and extension work during the year was submitted by Tibey Bros., Dubuque, Iowa, at $11,925.

+JANESVILLE, WIS.—The Common Council has awarded the contract for constructing sewers in North Main and North Academy Sts. to TIBEY BROS., Dubuque, Iowa, at $11,925.

LOGAN, IOWA.—Plans are being prepared by Bruce & Standeven, Bee Bldg., Omaha, Neb., for sewers to cost approximately $22,500. O. L. Case is City Clk.

VIRGINIA, MINN.—Plans and specifications are being prepared by E. F. Johnson, City Engr., for constructing storm sewers in Magnolia and Balsam Sts. A sanitary sewer will soon be laid in Block 12.

*ELY, MINN.—Bids will be received by the City of Ely, at the office of the City Clerk, until 8 p. m., July 18, for constructing one sanitary and one storm sewer, a sedimentation tank to be connected with the sanitary sewer, and for laying a water main. The approximate amount of materials and excavations are as follows: 3,603 cu. yds. of earth and 675 cu. yds. of rock excavation for sewers, and for sedimentation tank 100 cu. yds. of earth. For construction of storm sewers: 1,005 lin. ft. 38-in. concrete sewer pipe in place and 300 lin. ft. 40-in. concrete sewer pipe in place. For construction of sanitary sewers: 1,885 lin. ft. 15-in. pipe, 573 lin. ft. 12-in. pipe and 1,176 lin. ft. 10-in. pipe and 17 manholes. I. Wisted, Jr., is City Clk.

+FAIRMONT, MINN.—We are officially advised that the contracts have been awarded to the J. W' TURNER CONSTRUCTION CO., Des Moines, Iowa, as follows: For constructing 7,000 lin. ft. of sewer main, at $9,780; for 17 blocks of water mains, at $5,850. E. L. Lewis is City Clk.

FALLS CITY, NEB.—Plans and specifications are being prepared by Adna Dobson, Lincoln, Neb., for the construction of a sewer system in Falls City.

*MARIETTA, OKLA.—Bids will be received by the Mayor until July 15 for furnishing the sewer pipe, special, flush tank, manhole rings and covers required for the construction of a sanitary sewer system. The O'Neill Engineering Co., Dallas, Tex., is Engr.

CENTRALIA, WASH.—The contract for constructing a sewer system for the south part of the city, has been awarded to the LISTER CONSTRUCTION CO., at 8,736.

+SOUTH BEND, WASH.—The contract for constructing a trunk sewer has been awarded to the JAHN CONTRACTING CO., Empire Block, Seattle, Wash., at $26,085.

+HILLSBORO, ORE.—We are officially advised that bids have been received as follows for constructing a sanitary sewer system: MASON & COMBS, Portland, Ore., $35,340 (awarded contract); Bidwell-Hayden & Co., $36,183; James Kennedy Construction Co., $38,758; Williams & Beggs Co., $41,114; Hugh McLain, $41,505; Puguet-Giebisch-Joplin, $41,929; Jahn Contracting Co., $44,502; Jeffrey & Buffton, $46,728; J. & M. Keating, $48,080; Johnson-Anderson Co., $48,822. The item bids of Mason & Combs are as follows: Excavation, per cu. yd., 60 cts.; vitrified pipe, per lin. ft., 8-in. 25 cts., 10-in. 40 cts., 12-in. 45 cts., 14-in. 60 cts., 16-in. 90 cts., 18-in. $1.30; Ys, 8 × 6-in. $1.35, 10 × 6-in. $1.90, 12 × 6-in. $2.60, 14 × 6-in. $3.65, 16 × 6-in. $4.65, 18 × 6-in. $5.80; drain tile, per lin. ft., 4-in. 4 cts., 6-in. 8 cts.; 4 × 4-in. Ys 80 cts., 6 × 6-in. 85 cts.; manholes, each, $65; manholes, additional depth per ft., $5; septice tank, complete, $500; standard flush tank, each, $100; special flush tanks, each, $75.

+Bids were received for constructing a storm sewerage system as follows: JAMES KENNEDY CONSTRUCTION CO., Salt Lake City, Utah, $28,273 (awarded contract); Bidwell-Hayden Co., $30,217; Mason & Combs, $32,284; Peguet-Giebisch-Joplin, $32,388; Williams & Beggs Co., $32,684; Hugh McLain, $34,870; John Construction Co., $35,396; J. & M. Keating, $36,138; Jeffrey & Bufton, $36,882; Johnson-Anderson Co., $37,368. The item bids of the James Kennedy Construction Co. are as follows: Excavation, per cu. yd., 55 cts.; vitrified pipe, per lin. ft., 8-in. 35 cts.; 10-in. 50 cts., 12-in. 65 cts., 14-in. 75 cts.; 16-in. 82 cts.; 18-in. $1.25, 20-in. $1.40; 22-in. $1.80, 24-in. $2; 27-in. $2.25, 30-in. $2.70, 12 × 6-in. $1.25; 14 × 6-in. $1.75, 16 × 6-in. $2, 18 × 6-in. $3, 20 × 6-in. $1; 22 × 6-in. $1; manholes, each, $45; catch basins, each, $20; sump, complete, $250. Lewis C. Kelsey, Selling Bldg., Portland, Ore., is City Engr. for Hillsboro.

The contract for 2,300 lin. ft. of 27-in. and 30-in. reinforced concrete pipe for storm sewers has been awarded to the REINFORCED CONCRETE PIPE CO., Central Bldg., Los Angeles.

CORNING, CAL.—Bids will be received by the Board of Trustees until 8 p. m., July 7, for constructing a sewer system according to plans on file with the Board. E. L. Randall is Clk.

DIXON, CAL.—Bids will be received by J. F. Ayer, Town Clk., until July 11, for the construction of a sewerage system from plans prepared by Reynolds & Whitman, Ochner Bldg., Sacramento, Cal. The estimated cost is $27,000.

+OAKLAND, CAL.—Bids have been received and contracts awarded for constructing approximately 85 miles of sewers as follows: District No. 1, CHAMBERS & HEAFY, $79,132 (awarded contract); Michael Heafy, $97,184; Bates, Borland & Ayres, $109,945; C. D. Vincent, $97,411. District No. 2, CONTRA COSTA CONSTRUCTION CO., $77,877 (awarded contract); alternate, $76,648; Bates, Borland & Ayres, $82,412; C. D. Vincent, $81, 544; alternate, $80,199. District No. 3, C. D. VINCENT, $102,126 (awarded contract); alternate, $100,267; Contra Costa Construction Co., $106,230; Bates, Borland & Ayres, $116,589; Williams & Belser, $121,905; alternate, $119,807. District No. 4, C. D. VINCENT, $110,625 (awarded contract); alternate $108,730; Contra Costa Construction Co., $129,261; Williams & Belser, $140,015; alternate, $142,200; Bates, Borland & Ayres, $135,922; Western Engineering & Water Supply Co., $135,775.

+OAKLAND, CAL.—We are officially advised that the REINFORCED CONCRETE PIPE CO., Central Bldg., Los Angeles, has been awarded the contract for constructing sanitary outfall sewers in Districts 2, 3 and 4 at Oakland, Cal., requiring 6,300 lin. ft. of 30-in. and 7,280 lin. ft. of 36-in. reinforced concrete pipe.

BERKELEY, CAL.—Bids will be received by the Clerk of the City Council until 9.30 a. m., July 11, for constructing a 6-in. sewer of vitrified iron stone pipe in Eunice St.

SAN FRANCISCO, CAL.—Bids will be received by the Board of Public Works, David Hewes Bldg., until 2 p. m., July 12, for doing the following street work in accordance with plans and specifications on file with Clerk: Construction of sewers and appurtenances in Section D, one and two in Section G, of the North Point Main.

STREETS AND ROADS.

(*Denotes that this work is advertised in Engineering News.*)

+HOLYOKE, MASS.—We are officially advised that the contract for paving Railroad, Essex and Jackson Sts. with vitrified brick, about 5,200 sq. yds., was awarded on June 26 to the SHAWMUT BRICK WORKS, 141 Milk St., Boston.

+BOSTON, MASS.—The contract for the building of 7,300 ft. of State highway in Abington and Weymouth has been awarded to CORCHIA BROS. CONSTRUCTION CO., at $7,192. Other bids were: E. J. Rourke, Abington, $7,362; Jas. H. Fannon, Somerville, $7,387; Thos. Whelan & Co., Wollaston, $7,840; Jos. McCormick, East Providence, R. I., $8,104; F. Williams & Co., Boston, $11,129.

BOSTON, MASS.—Bids will be received until July 10 for constructing sewers in Branch St., paving in Jenner and Joiner Sts., and sidewalks in Ocean St. L. K. Rourke is Comr. Pub. Wks.

HOLYOKE, MASS.—The Board of Public Works have recently received bids for furnishing vitrified brick and granite block pavement as follows: For vitrified brick, Luke D. Mullen, $31.25 per M.; Mack Manufacturing Co., $28.70; Daniel O'Connell's Sons, $27.50; Shawmut Paving Brick Co., $26.50; Samuel Snell Co., $25.50; for granite block, W. H. Flynt Granite Co., $55 per M.; Daniel O'Connell's Sons, $54; Hild Granite Co., $46.

NAUGATUCK, CONN.—Bids will be received by the Board of Warden and Burgesses for about 3,500 sq. yds. of vitrified brick pavement in Maple St. George C. Ham, 81 Church St., is Boro. Engr.

*NEW LONDON, CONN.—We are officially advised that bids for constructing 30 miles of cement sidewalks were received on June 28 as follows, (a) cement walk per sq. ft., Section 1; (b) Section 2; (c) Section 3; (d) Section 4; (e) Section 5; (f) rock excavation, per cu. yd.; (g) extra earth excavation, per cu. yd.: W. G. Rutherford, Red Bank, N. J., (a) 17 2-5 cts., (b) 17 2-5 cts., (c) 17 2-5 cts., (d) 16 cts., (e) 16 cts., (f) $6, (g) 75 cts.; Fowler Bros., New London, Conn., (d) 19 cts., (e) 19 cts., (f) $5, (g) 50 cts.; C. H. Kaumeier, Port Huron Mich., (informal), (a) 15 cts., (c) 15 cts., (d) 15 cts., (e) 15 cts., (f) $4, (g) 60 cts.; W. J. Morley, Winfield, L. I., N. Y., (a) 14¼ cts., (b) 14¼ cts., (c) 14¼ cts., (d) 14¼ cts., (e) 14¼ cts., (f) $4, (g) 40 cts.; Artificial paving Co., Syracuse, N. Y., (b) 14.4 cts., (c) 14.2 cts., (e) 13.9 cts., (f) $4.80, (g) $1.20; Frank Arrigoni & Bro., Middletown, Conn., (a) 14¾ cts., (b) 14¾ cts., (c) 14¾ cts., (d) 14¾ cts., (e) 14¾ cts., (f) $3, (g) 60 cts.; Monmouth Contracting Co., Red Bank, N. J., (a) 17 1-5 cts., (b) 17 1-5 cts., (c) 17 1-5 cts., (d) 16 cts., (e) 16 cts., (f) $6, (g) 80 cts.; Michael O'Connell, New London, Conn., (a) 15 cts., (f) $3.50, (g) $1; John J. Crane, New London, Conn., (a) 16.9 cts., (b) 16.9 cts., (c) 16.9 cts., (d) 16.9 cts., (e) 16.9 cts., (f) $5, (g) 90 cts.; A. B. Nicholas, Inc., Brooklyn, N. Y., (a) 15⅝ cts., (b) 15⅝ cts., (c) 14.9 cts., (d) 14.9 cts., (e) 14.9 cts., (f) $7, (g) 50, 55, 60 cts.; M. O. Baker, New Britain, Conn., (e) 12⅞ cts., (f) $2.40, (g) 60 cts.; L. C. Baker, New Britain, Conn., (d) 14¾ cts., (f) $2.65, (g) 55 cts.; Frank Williams & Co., Boston, Mass., (a) 19 cts., (b) 21 cts., (f) $3, (g) 75 cts.; Geo. W. Carr Co., Brookline, Mass., (a) 18 cts., (b) 18 cts., (c) 18 cts., (d) 18 cts., (e) 18 cts., (f) $2.50, (g) 60 cts.; Loftus & Dugan, New Bedford, Mass., (e) 15½ cts., (f) $4, (g) 50 cts.; John T. Shea, Jr., Boston, Mass., (a) 16½ cts., (d) 16¼ cts., (f) $3, (g) 75 cts.; Carroll Construction Co., Brookline, Mass., (a) 18 cts., (b) 18 cts., (c) 18 cts., (d) 18 cts., (e) 18 cts., (f) $2.50, (g) 60 cts. George K. Crandall is City Surv.

TROY, N. Y.—Bids will be received by the Board of Contract and Supply until July 11, for grading, curbing and laying sidewalks in Sixth Ave., between Fourth and Sixth Sts. The work includes: earth excavation, grading for walk and curb, 110 cu. yds.; curbing, granite, 1,432 lin. ft.; old bridge stone, 260 sq. ft.; catch basins, Plan No. 12, four; concrete walk, 2,752 sq. ft.; foundation materials, 68 cu. yds.; combined concrete curb and gutter (if selected) 1,432 lin. ft.; cobblestone gutter (if curbed with granite curb), 480 sq. yds. James M. Riley is Secy.

ALBANY, N. Y.—We are officially advised that bids were received by the Site Commission, Homer Folks, Chn., 105 East 22d St., New York, on June 26, as follows for the improvement of a highway in Westchester County, from a point on the state highway, near Yorktown Heights, to the site of the New York State Training School for Boys, a distance of about 1.85 miles: W. F. McCabe Contracting Co., $20,850; Michael Leo and J. H. Slater, $23,950; Frank G. Fowler Construction Co., $20,846; E. T. Eggleston, $21,000; for the construction of a road within the site, about one mile long: Frank G. Fowler Construction Co., $6,819; Michael Leo and J. H. Slater, $7,800; William F. McCabe Contracting Co., $6,700; E. T. Eggleston, $6,600.

LANCASTER, N. Y.—Bids will soon be asked for paving Central Ave. at a cost of $43,000.

*NEWBURGH, N. Y.—Bids will be received by the City Clerk until 5 p. m., July 11, for paving or repaving Colden and Water Sts., between Broadway and South St., in accordanec with plans and specifications prepared by William J. Blake, Jr., City Engr. Bids will be received for paving with new granite block, vitrified brick and for relaying old granite block. There is about 6,450 sq. yds. of pavement, 10 cu. yds. extra concrete, 12 catch basins, 4 sewer manholes and 5,000 lin. ft. of curbstone, etc.

CAMDEN, N. J.—Bids will be received by the Board of Chosen Freeholders until 11 a. m., July 19, for resurfacing the Camden and Westfield Turnpike. John Prentice is Dir., and J. J. Albertson, County Engr.

*WOODSTOWN, N. J.—Bids will be received by the Road Committee of the Mayor and Council of the Borough of Woodstown until 7 p. m., July 31, for grading and placing asphalt concrete surface on East and West Aves. for the distance of one-half mile. E. S. Fogg is Mayor.

MAPLEWOOD, N. J.—Bids will be received by the Township Committee of the Township of South Orange until 8 p. m., July 6, for grading and macadamizing Richmond Ave., Beach Pl., Woodland Ave. and Salter Pl., and constructing a cement curb and gutter on both sides of Richmond Ave., from Parker Ave. northerly to the dividing line

between the village of South Orange and the Township of South Orange. William H. Kemp is Chn. and Edward R. Arcularius Township Clk.

✚MORRISTOWN, N. J.—The Board of Aldermen has awarded the contracts for the repair of Morris St. and Speedwell Ave. to WARREN BROTHERS at $1.49 per sq. yd. The paving will be of bitucrete and will extend on Morris St., from King St. to the park and on Speedwell Ave., from the park to Sussex Ave.

The contract for paving with amiesite 2 ins. thick on telford base on the northwest side of the park and a 4-in. macadam base on the southwest side of the park has been awarded to FREDERICK S. SMITH at $1.30 per sq. yd.

JERSEY CITY, N. J.—Bids will be received by the Board of Street and Water Commissioners until 2 p. m., July 10, for repaving Ninth St., from Erie St. to Jersey Ave. George T. Bouton is Clk.

NEWARK, N. J.—Bids will be received by Morris R. Sherrerd, Ch. Engr., Bd. of St. and Water Comrs., until 3.15 p. m., July 6, for repaving Bowery and Market Sts. The estimated quantities are: 17,870 sq. yds. oblong granite block pavement, 12,100 lin. ft. curb, etc.

HACKENSACK, N. J.—Bids will be received by the Mayor and Board of Council of the Borough of Cliffside Park, until 8 p. m., July 10, for the construction of concrete curbs and gutters along both sides of Anderson Ave., from the northerly line of the borough to Grant Ave., in accordance with plans and specifications, drawn by the Borough Engineers and now on file with Myles J. Murphy, Boro. Clk.

McKEESPORT, PA.—Bids will be received by the Street Committee until 7.30 p. m., July 7, for repaving Fifth Ave., from Fifth Ave. Bridge eastwardly, with vitrified fire clay or shale brick block. C. E. Soles is City Controller.

BALTIMORE, MD.—Bids will be received by the State Roads Commission, John M. Tucker, Chn., Union Trust Bldg., Baltimore, until July 10, for building six sections of stat ehighway, about 20 miles, in Ann Arundel, Calvert, Carroll and Baltimore Counties.

WASHINGTON, D. C.—Bids were received as follows on June 29 by the Commissioners of the District of Columbia for grading: (a) Harper & Voight, (b) R. J. Beall Construction Co., (c) E. G. Gummel, (d) G. B. Mullen, all of Washington. Grading, (a) 43 cts., (b) 49 cts., (c) 44 cts., (d) 43 cts.; 6 × 20-in. curb, (a) 33 cts., (b) 29 cts., (c) 30 cts, (d) 25 cts; 8 × 8-in. curb, (a) 39 cts., (b) 34 cts., (c) 39 cts., (d) 35 cts.; granite block gutter, (a) 37 cts., (b) 48 cts., (c) 39 cts., (d) 36 cts.; vitrified brick gutters, (a) 59 cts., (b) 74 cts., (c) 69 cts., (d) 63 cts.; cement curb, (a) 44 cts., (b) 60 cts., (c) 65 cts., (d) 77 cts.; cement gutters, (a) 35 cts., (b) 20 cts., (c) 50 cts., (d) 40 cts.

*KEY WEST, FLA.—Bids will be received by the Board of Public Works, Wm. R. Porter, Chn., until 7.30 p. m., July 26, for grading, curbing and paving certain streets with either wood blocks, vitrified brick, bitulithic, asphalt blocks or asphalt macadam surfacing material. The work will include the preparation of suitable foundations, furnishing and setting 18,395 lin. ft. of stone curb, and the surfacing of 67,857 sq. yds. of pavement, and furnishing the necessary castings for drainage. Specifications may be procured and plans and profiles seen at the office of the Clerk of the Board of Public Works, Key West.

JACKSONVILLE, FLA.—Bids will be received by the Board of Commissioners of Duval County until 10 a. m., July 7, for grading the marsh causeway on the Duval road from the south side of the marsh to Nassau River. Specifications may be procured upon application to Gail L. Barnard, County Engr., Court-house, Jacksonville.

NEW ORLEANS, LA.—Bids will be received at the office of the Highway Department of the Board of State Engineers of Louisiana, at the Court Bldg., New Orleans, until noon, Aug. 1, for the construction of highways from North St. to Bayou Sara Road in the city of Baton Rouge, East Baton Rouge Parish, and from Mansfield to Logansport, De Sota Parish.

✚MEMPHIS, TENN.—A contract for paving Union Ave., between Main and Wellington Sts., with creosoted wood blocks, has been awarded to R. C. HUSTON, at $17,200.

✚MARION, OHIO.—The contract for constructing a pike in Marion County has been awarded to JOHN D. OWEN & SON at $18,935. Other bidders were: E. C. Brady, $20,948; J. D. Gillispie, $19,498; Molder & McNeal, Findlay, Ohio, $19,256.

MARYSVILLE, OHIO.—Bids will be received by the County Commissioners until July 18 for the construction of the Bixler Road in York Township, Union County.

NEWTON FALLS, OHIO.—Bids will be received by Wade Gardner, City Clk., until July 18 for paving various streets.

OTTAWA, OHIO.—Bids will be received by Jos. Kersting, County Audr., until July 7 for constructing the Tri-County Road Improvement No. 110.

SPRINGFIELD, OHIO.—Bids will be received by the Director of Public Service until noon, July 7, for the improvement of Seever St., from High to Hughes Sts., by grading, graveling and constructing curb and gutter, according to plans and specifications on file in the office of the Department of Public Service. Wm. H. Mahoney is Clk.

COLUMBUS, OHIO.—Bids will be received by Commissioners of Franklin County, until July 26, for the construction o fa new sidewalk on the Broad St. bridge over the Scioto River, and for sewer pipe to be furnished f. o. b. cars at Lockburne, Ohio.

✚ELYRIA, OHIO.—Paving contracts have been awarded by the Board of Control as follows: Broad St., from East Ave. to the Broad St. Bridge, the OHIO ENGINEERING CO., Elyria, $9,600. Other bidders were: S. Mendleson, $9,740; the Asphalt Block Paving Co., $12,300; Fremont St, MENDLESON & WINCKLES, $2,413.

✚PORTSMOUTH, OHIO.—The Board of Control has awarded the contract for paving Brown and Adams Sts., to KELLEY BROS., at $6,543 and $4,575, respectively.

BOWERSTON, OHIO.—Bids will be received by the Village Council at the office of the Clerk until noon, August 5, for grading, curbing, paving with brick and improving parts of Main St., State St. and Garfield Ave. W. F. Utterback is Clk.

BOWLING GREEN, OHIO.—Bids will be received by F. W. Toan, County Audr., until 1 p. m., July 31, for grading, draining and macadamizing a public highway.

✚WINCHESTER, IND.—Bids for paving South St., from Greenville Pike to Jackson St., were received on June 28, by the County Auditor and the contract awarded to WHEAT, SISK, RUPEL & GRIFFITH, at $30,037. The other bids were as follows: Seth Hinshaw Construction Co., $31,096; Tripeer & Son, Peru, Ind., $32,015; Adams Bros. Construction Co., $32,500; Keegan Brothers, $33,901; Dan O. North, Bluffton, Ind., $34,460.

INDIANA.—Bids will be received for road construction, as follows:

Until 2 p. m., July 10, by Commissioners of Warren County at Williamsport, Ind., for the construction of a gravel road in Adams Township. D. H. Moffit is County Audr.

Until 2 p. m., July 10, by Commissioners of Parke and Putnam counties at Rockville, Ind., for the construction of a gravel road on the county line between Jackson township, Parke County, and Madison township, Putnam County. J. E. Elder is Audr., Parke County.

Until 2 p. m., July 17, by Commissioners of Grant County, at Marion, Ind., for the construction of one gravel and one stone road in Fairmount Township, three stone roads in Mill and Franklin Townships and one paved road in Mill Township. A. Y. Stout is County Audr.

Until 10 a. m., July 21, by Commissioners of Allen and Adams Counties, at Decatur, Ind., for the construction of a macadamized road on county line between Madison Township, Allen County, and Root Township, Adams County. H. S. Michaud is Audr., Adams County.

✚BLOOMINGTON, IND.—The City Council of Bloomington has awarded the contract for the improvement of East Third St., to BLAIR & KERR, at $41,265. Boston brick will be used.

✚PERU, IND.—The contract for construction approaches, curbs, sidewalks and steps for new court house at Peru, has been awarded to P. H. McCORMACK & CO., Columbus, Ind., at $9,495.

INDIANAPOLIS, IND.—The Commissioners of Marion County will soon ask bids for the construction of a gravel road on the line between Perry and Franklin Townships. Albert ahm is County Audr.

GREEN BAY, WIS.—We are officially advised that bids were received on June 27 as follows: (a) 13,558 sq. yds. pavement and 6,422 lin. ft. curb on Adams St., from Main St. to Astor Pl.; (b) 2,074 sq. yds. pavement and 866 lin. ft. curb on Dousman St., from Broadway to bridge over Fox River; (c) 11,902 sq. yds. pavement and 3,140 lin. ft. curb on Dousman St., from Broadway to Allard Ave.; (d) 9,299 sq. yds. pavement and 5,719 lin. ft. curb on Crooks St., from Washington St. to Webster Ave.; (e) 770 sq. yds. pavement and 660 lin. ft. curb on Congress St., from Madison St. to Monroe Ave.; (f) 770 sq. yds. pavement and 660 lin. ft. curb on Spring St., from Madison St. to Monroe Ave.; (g) 1,102 sq. yds. pavement and 551 lin. ft. curb on East Walnut St., from Washington St. to bridge over Fox River; (h) 7,531 sq. yds. pavement and 4,835 lin. ft. curb on East Walnut St., from Adams St. to Webster Ave.: Andrews Asphalt Paving Co., Hamilton, Ohio, (asphalt), (a) $33,678, (c) $28,078, (d) $23,734, (e) $2,090, (h) $19,345; R. S. Blome Co., Chicago, Ill., (concrete), (a) $30,200, (b) $4,800, (c) $26,500, (d) $21,800, (e) $2,100, (f) $2,100, (g) $2,700, (h) $18,240; John Brogan, Green Bay, (asphalt), (a) $28,813, (c) $24,184, (d) $18,834, (e) $1,770, (f) $1,760, (h) $16,123; (brick), (a) $29,385, (c) $25,181, (d) $21,507, (e) $1,875, (f) $1,866, (h) $17,278; (concrete), (a) $20,810, (c) $18,353, (d) $15,626, (e) $1,388, (f) $1,379, (h) $12,323; J. F. Hill, Chicago, (asphalt), (a) $31,389, (c) $26,540, (d) $20,142, (e) $1,895, (f) $1,895, (g) $2,743, (h) $18,242; McGrath Construction Co., Green Bay, (sandstone), (b) $6,855, (g) $3,645; (brick), (b) $5,140, (g) $2,771; (concrete), (a) $20,387, (d) $15,250, (e) $1,382, (f) $1,382, (h) $12,164; (tar macadam), (a) $20,855, (d) $15,500; (e) $1,426, (h) $12,569 (asphalt), (f) $1,426; Western Improvmeent Co., Racine, Wis., (asphalt), (a) $27,000, (b) $4,230, (c) $23,824, (d) $19,425, (g) $2,301, (h) $16,289; (brick), (a) $31,511, (b) $4,770, (c) $27,514, (d) $22,286, (g) $2,587, (h) $18,717; (tar macadam), (a) $22,834, (b) $3,442, (c) $19,897, (d) $16,379, (g) $1,882, (h) $13,705.

MILWAUKEE, WIS.—The Department of Public Works will receive bids until July 7 for constructing a permanent bituminous pavement on concrete foundation as follows: 4,740 sq. yds. of pavement in Stowell Ave., from Park Pl. to Bradford Ave., 1,440 sq. yds. in Farwell Ave., from Park Pl. to Belleview Pl.; 4,158 sq. yds. in Cambridge Ave., from North Ave. to Boylston Pl.; 10,105 sq. yds. in Cherry St., from 17th to 24th Sts. Harry E. Briggs is Comr.

*MAGNOKETA, IOWA.—Bids for paving have been received as follows: (a) North Main St., (b) South Main St., (c) East Platt St., (d) West Platt St., (e) West Pleasant St.:

Brick: Tri-City Construction Co., (a) $7,024 (b) $11,454, (c) $11,034, (d) $12,232, (e) $8,860; James Horrabin, (a) $7,441, (b) $11,714, (c) $11,657, (d) $12,857, (e) $9,223; Indiana Construction Co., (a) $7,247, (b) $11,305, (c) $11,812, (d) $12,562, (e) $8,940; M. FORD, (a) $6,828 (awarded contract), (b) $10,693 (awarded contract), (c) $10,700 (awarded contract), (d) $11,897 (awarded contract), $8,405 (awarded contract); Kennedy & Lea, (a) $6,934, (b) $10,835, (c) $10,860, (d) $12,051, (e) $8,557; Dearborn & Jackson, (a) $6,970, (b) $10,915, (c) $10,922, (d) $12,159, (e) $8,580; McCarthy Construction Co., (a) $7,537, (b) $11,824, (c) $11,817, (d) $13,148, (e) $9,299.

Wood block: James Horrabin, (a) $7,311, (b) $11,494, (c) $11,459, (d) $12,721, (e) $9,058; Indiana Construction Co., (a) $8,057, (b) $12,399, (c) $12,316, (d) $13,771, (e) $9,974; M. Ford, (a) $7,854, (b) $12,221, (c) $12,296, (d) $13,644, (e) $9,734; DEARBORN & JACKSON, Cedar Rapids, Iowa, (a) $7,651, (b) $11,973, (c) $11,982, (d) $13,309, (e) $9,458 (awarded contract).

Sarcolithic: Thomas Kelly, (a) $7,051, (b) $11,073, (c) $11,054, (d) $12,311, (e) $8,693; James Horrabin, (a) $7,236, (b) $11,388, (c) $11,375, (d) $12,688, (e) $8,727; Indiana Construction Co., (a) $6,792, (b) $10,607, (c) $10,602, (d) $11,790, (e) $8,363; McCarthy Improvement Co., (a) $6,927, (b) $10,887, (c) $10,864, (d) $12,087, (e) $8,519; W. Ahlborn, (a) $7,267, (b) $11,414, (c) $11,395, (d) $12,705, (e) $8,911.

Asphaltic concrete: M. Ford (a) $5,606, (b) $8,891 (c) $8,794, (d) $9,824, (e) $6,845; Kennedy & Lea, (a) $6,138, (b) $9,615 (c) $9,618, (d) $10,701, (e) $7,541.

ST. PAUL, MINN.—The City Engineer has prepared preliminary plans for paving Summit Ave., from Dale to Lexington St., at a cost of from $72,000 to $90,000.

GROVETON, TEX.—We are officially advised that bonds for $40,000 have been voted for road improvement. G. W. Locker is Clk., Trinity County.

MUSKOGEE, OKLA.—Bids will be received by Chas. Wheeler, Jr., City Clk., until July 11, for improving the following districts: Dist. 126, with sheet asphalt; Dist. 121, with concrete pavement and necessary asphalt expansion joints; Dist. 126, with sheet asphalt.

BOULDER, COLO.—Bids will be received until July 17, for constructing macadam pavement, estimated at $12,000. Fred R. Dungan is City Engr.

✚HILLSBORO, ORE.—We are officially advised that the contract for paving various streets has been awarded to the WARREN CONSTRUCTION CO., Lumber Exchange, Portland, Ore., at $52,784. The item bids were: Excavation, per cu. yd., 60 cts.; paving, per sq. yd., $2.07; curb and gutter, plain, per lin. ft., 75 cts.; curb and gutter, reinforced, per lin. ft., $1; gutter, 18-in., per lin. ft., 30 cts.; pavement, guarantee 5 yrs., per sq. yd., 8 cts.; driveways, 6-in. cement pavement, per sq. ft., 18 cts.; 2½-ft. radii curb, per lin. ft., 75 cts.; 6-ft. radii curb, per lin. ft., 65 cts.

SAN FRANCISCO, CAL.—Bids will be received by the Board of Public Works, David Howes Bldg., until 2 p. m., July 12, for street work to be done in accordance with plans and specifications on file with Clerk.

LOS ANGELES, CAL.—The following contracts have been awarded by the Board of Public Works for street improvement: FAIRCHILD-GILMORE-WILTON CO., for improving Broadway, between East Seventh St. and East Fourth St., at $32,323. J. J. PAPAC for constructing cement sidewalks on San Pedro St., from Aliso to Fifth Sts., at $6,218. To FAIRCHILD-GILMORE-WILTON CO. for improving Ave. 20, between North Main St. and Pasadena Ave., at $14,237. To H. H. CURTIS, for improving I St., at $7,707.

✚POMONA, CAL.—The Pomona Investment Co. has awarded a contract to THOS. T. CRAWFORD, Pomona, for grading and oiling streets in the Lincoln Park Tract, Pomona, at $1.75 per lin. ft.

SACRAMENTO, CAL.—Nathaniel Ellery, State Engr., is preparing plans for highway improvements, for which the State Legislature has appropriated as follows: $25,000 for a State highway from Meyers Station in Eldorado County, to McKinneys, in Placer County; $50,000 for a State highway connecting the Counties of Trinity, Tehama and Shasta with the road system of Humboldt County; $15,000 for the general improvement of the Lake Tahoe Wagon Road; $35,000 to establish the Alpine State Highway between the Calaveras Grove and the Lake Tahoe State Highway; $5,000 for the Lassen State Highway; $25,000 for the completion of the Kings River Highway; $5,000 for the maintenance of the State Highway from Emigrant Gap to Donner Lake.

MANUFACTURING PLANTS.

(*✚Denotes a contract awarded.*)

LOWELL, MASS.—Plans have been prepared by the Bigelow Carpet Co. for a new dye house to be known as No. 17 to be located on the Pawtucket Canal near Market St. It is to be 277 ft. long by 46 ft. in height and will be of brick, reinforced concrete and steel construction. The estimated cost of the building is $100,000.

SALEM, MASS.—A 6-story factory is to be built at once for Laviseur & Conway, leather manufacturers.

SPRINGFIELD, MASS.—The Farley Paper Co., of Farley, is making preparations for additions to its plant, which will add a department for coating paper. Dennis E. Farley has contracted for two new buildings, the first to be 38 × 320 ft. and the second 77 × 84 ft., making the entire plant 755 ft. long and two stories high.

✚HOLYOKE, MASS.—CASPER RANGER, general contractor for the new mill of the Goetz Silk Mfg. Co., on Jackson St., has awarded sub-contracts for steelwork to G. HAARMAN & SON, Holyoke, and for cut stone to the CLARK-CONROY CO., Norwich, N. Y. The building will be 50 × 250 ft., three stories high, of brick, with brownstone trim. Noted on April 27 and May 4.

PITTSFIELD, MASS.—It is reported that the Clark Dye Works has purchased a site on Columbus Ave. and are having plans prepared for a dyehouse to be erected soon.

PROVIDENCE, R. I.—Plans have been announced by the Walpole Rubber Co. for the construction of a factory on Harris Ave.

✚NEW BRITAIN, CONN.—The general contract for the laundry building to be erected on Arch St. for J. S. Bennett has been awarded to the CURTISS BUILDING CO., who have given the subcontract for the mason work to DOOLITTLE BROS. The building will be two and three stories high, 40 × 160 ft., with pressed brick front and stone trim. The plans were drawn by Archs. Unkelbach & Perry, of this city.

✚PLAINFIELD, CONN.—The BENJAMIN F. SMITH CO., Pawtucket, R. I., has been awarded the contract for the erection of two mill buildings for the Plainfield Mills Co. The buildings will be of brick, one 50 × 460 ft., one story high, and the other 50 × 490 ft., three stories high. John Porteous is Pres. of the company. Noted on June 22.

✚SHELTON, CONN.—The TRACY BROS. CO., Waterbury, Conn., general contractors for the addition to the plant of the R. N. Bassett Co., has awarded the contract for the plumbing, heating and sprinkler system to M. J. DALY & SONS, INC., Waterbury. The building will be of brick, two stories high, 100 × 300 ft. Frederick R. Warren, 103 Park Ave., New York, is the Arch.

AMSTERDAM, N. Y.—McCleary, Wallin & Crouse, 57 Lyons St., are having plans prepared for a 7-story and basement factory building of reinforced concrete and structural iron, which they purpose to erect this summer.

ROCHESTER, N. Y.—Joseph H. Oberlies, Arch., Granite Bldg., is preparing plans for a factory building to be erected on Palmer St. by the Empire Last Works, 130 Mill St.

SCHENECTADY, N. Y.—L. Rodman Nichols, Arch., this city, has completed plans for a 1-story brick factory and boiler house, 60 × 149, brick and concrete construction, and a 2-story office building, 44 × 40, which the Unit Brick Co. will erect at once.

DELANCO, N. J.—A. Ridgway & Son, Delanco, N. J., will construct a 3-story concrete factory. Plans were prepared by Richard C. Loos, 1017 Chestnut St.

SILVER LAKE, N. J.—It is reported that the licorice works at Silver Lake have been secured by Thomas A. Edison for the erection of two new plants. In one of the new plants storage battery cars for railroad service will be built, and in the other automobiles of the storage battery type.

✚WILKES-BARRE, PA.—Plans were filed for the erection of a 4-story brick pattern house at the Vulcan Iron Works on South Main St. The structure will be 52.4 × 136.4 ft., and will cost about $50,000. GEORGE T. DICKOVER & SONS are the contractors in charge of the work.

BALTIMORE, MD.—The Maryland Cold-Storage Warehouse Co. have awarded contract to the CONSOLIDATED ENGINEERING CO., Emerson Tower Bldg., Lombard and Eutaw Sts., for constructing a cold-storage warehouse on Pratt St., between Light and Charles Sts., to be of brick and stone construction, slate roof, steam heat, gas and electric lighting, plumbing. Cost, $150,000.

YORKTOWN, VA.—Jamestown Portland Cement Corporation, 651 Bullitt Bldg., Philadelphia, Pa., has awarded all contracts for construction and equipment of plant to the AMERICAN CEMENT ENGINEERING CO., 315 Fifth Ave., New York City. James H. Lauchlan, Yorktown, is Arch.

ELON COLLEGE, N. C.—The Ossipee Cotton Mills of Elon College, N. C., have completed some general improvements to their spinning equipment, the entire machinery having been overhauled. This company is manufacturing domets and flannels, its equipment consisting of 5,000 ring spindles, 354 narrow looms, 21 cards, etc., driven by steam power and employing about 250 operatives.

MAYODAN, N. C.—The Avalon Mills will at once rebuild the plant burned some days ago. About $350,000 will be the cost, and the equipment will include 18,000 mule spindles, with accompanying machinery. F. H. Fries, of Winston-Salem, is Pres. of the company.

GAFFNEY, S. C.—It is reported that the Irene Mills of Gaffney, S. C., will overhaul their machinery and will generally improve the entire plant and equipment.

FITZGERALD, GA.—The Farmers' Education and Co-operative Union have agreed upon plans for the enlargement of its subsidiary organization, the Union Phosphate Co.

ANNISTON, ALA.—The American Net & Twine Co., Anniston, Ala., and East Cambridge, Mass., has determined on final plans and specifications for its recently mentioned enlargement of the Anniston plant. Its additional building will include an extension of and main structure, 20 cottages for operatives and a 60 × 300-ft. warehouse of brick construction.

BIRMINGHAM, ALA.—It is reported that plans for the construction of the large concrete grain elevator and mill at East Thomas by the Western Grain Co. and other parties interested, are rapidly formulating, and it is expected that soon definite steps toward beginning the work will be taken.

KNOXVILLE, TENN.—The Maryville Hosiery Mills, of Maryville, which were destroyed by fire recently at a loss of about $65,000, will be rebuilt. This building will be 60 × 200 ft. and will cost about $14,000, to be equipped with 125 knitting machines and accompanying apparatus for manufacturing hosiery. About 125 persons will be employed and the daily output will be 600 dozen pairs of hosiery. R. B. Oliver is Pres. and C. L. Grove, Vice-Pres.

COLUMBUS, OHIO.—The Scioto Valley Traction Co. is having plans prepared by Arch. Frank L. Packard for new shops to be erected at Reeses, just south of Columbus. The shops will cost in the neighborhood of $40,000.

AKRON, OHIO.—The Northern Ohio Traction & Light Co. has purchased additional land near Akron, Ohio, upon which will be erected large car shops for the repair work of the large traction system. New car barns will also be erected.

GRAND RAPIDS, MICH.—The Elliott Machine Works intend to erect a 3-story fireproof re-concrete factory in Grand Rapids at an approximate cost of $100,000. Osgood & Osgood, of Grand Rapids, are the Archs.

ROCKFORD, ILL.—Plans have been prepared for an addition 80 ft. wide and 100 ft. long on the west side of the building of the Rockford Tool Co., at Harrison Ave. and Eleventh St. Contracts will be awarded soon.

BEAVER DAM, WIS.—The Beaver Dam Manufacturing Co. has increased its capital stock from $100,000 to $200,000 to provide for additions and extensions. Several important building projects will be undertaken this year, but definite plans have not been formed. Edward Beichl is Pres.

LOMIRA, WIS.—Construction work will start here soon on the brewery of the Starr Bros., to be erected at a cost of $50,000. The company two years ago erected a malting plant to operate in conjunction with the brewery.

MILWAUKEE, WIS.—Plans are being prepared by Architect Herman J. Esser, 426 Camp Bldg., for a chrome tanning building for the Bay View plant of the Pfister & Vogel Leather Co. It will be 85 × 250 ft. of reinforced concrete, three stories and basement. The foundation will be constructed so that three additional stories may be added, making it a 6-story building. The building will cost about $60,000.

✚OMAHA, NEB.—A contract for the erection of a 2-story building for the David Cole Creamery Co., at Tenth and Howard Sts., has been let to GOULD & SON. The building will cost $36,000. It is the intention of the company to extend it several stories higher in the future. The foundations are to be made to support an 8-story structure. About $25,000 worth of machinery will be installed. The building will be used exclusively for creamery purposes. It will stand on the northeast corner of the streets on a lot 66 x 132 ft.

SANDERSON, TEX.—The Continental Wax Co., of Little Rock, Ark., has let the contract for the installation here of a large factory for the manufacture of wax from the candelilla plant.

ALAMOGORDO, NEW MEX.—The Alamogordo Improvement Co. is installing a canning factory here which will have a capacity of 5,000 cans per day.

RINCON, NEW MEX. — William Palmer, Jr., of Las Cruces, and associates will erect a large flour mill here.

SALT LAKE CITY, UTAH.—The Denver & Rio Grande R. R. will make alterations, additions and repairs to its Salt Lake shops to cost about $60,000. Considerable new machinery will be installed. They will be used jointly by the Denver and Western Pacific.

PORTLAND, ORE.—A $750,000 woodworking plant will be constructed here by the Berlin Machine Works, of Berlin, Wis.

✚MONTREAL, QUE.—The Gillette Safety Razor Co. has awarded to the ATLAS CONSTRUCTION CO., of Montreal, the contract for the building to be five stories high and of concrete, adjoining their present factory, at a cost of about $175,000.

TORONTO, ONT.—The Smith Manufacturing Co. will erect a mill. It is expected to have the mill constructed, all machinery installed and operations started by the end of August.

LOUISBURG, C. B.—The Gorton-Pew Fisheries Co., of this city, will establish a branch of its business at Louisburg, C. B. A site for the plant has been selected and the company proposes to expend about $50,000 upon it and the accessories. The matter will be submitted to the rate payers to vote upon on June 29, and it is said that the bonus will be probably approved.

MISCELLANEOUS CONTRACTS.

(*Denotes that this work is advertised in Engineering News.)

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

TUNNEL.—Boston, Mass.—A foot-way tunnel under the New York, New Haven & Hartford R. R., is proposed near Jamaica Plains. Estimated cost, $20,000. L. K. Rourke is Comr. Pub. Wks.

✚IRON WORK FOR CAGE.—Boston, Mass.—The contract for furnishing and erecting ironwork for flying cage at the Zoological Garden at Franklin Park has been awarded to the NEW ENGLAND STRUCTURAL CO., at $8,734. Other bids were: W. A. Snow Iron Works, $10,300; Smith & Lovett Co., $12,628.

✚IRON WORK, STONE WALL.—Boston, Mass.—The contract for the ironwork for the bears' den at Franklin Park has been awarded to SMITH & LOVETT CO., at $7,700. Other bids were: W. A. Snow Iron Works, $7,740; Fred. A. Houdlette & Son, $17,425, and for stone wall to protect the same to JOHN A. ROONEY, at $11,445. Other bids were: Carroll Construction Co., $11,750; Martin F. Culbert, $12,870; West Roxbury Trap Rock Co., $21,995; Shawmut Contracting Co., $22,221.

BAND STAND.—Boston, Mass.—The bids for the concrete band stand to be built on Boston Commons have been rejected as excessive. The work will probably be readvertised. Following are the bids as received: George A. Fuller Co., $45,846; Knickerbocker Stone Co., $49,200; William L. Morris & Co., $39,473; Woodbury & Leighton Co., $44,636; A. Piotti, $49,614; Conners Bros. Co., $46,500; John A. Rooney, $48,425; Norcross Bros. Co., $51,950; Central Building Co. (Edward F. Miner), $53,925; W. H. Keyes Co., $55,189; William Crane, $42,794. Robert L. Peabody is Chn. Park Com.

FERRY SLIP REPAIRS.—Boston, Mass.—Louis K. Rourke, Comr. Pub. Wks., has asked for an appropriation of $52,000 for repairs to the ferry slips at the East Boston ferries.

ELIMINATION OF GRADE CROSSINGS.—Cambridge, Mass.—Plans are being prepared for eliminating grade crossings at Porter's Station by the Boston & Maine R. R. Co. A. B. Corthell is Ch. Engr., Boston.

GRAVEL, BROKEN STONE.—New York, N. Y.—Bids will be received by George McAneny, Pres. Boro. Manhattan, until 2 p. m. July 14, for furnishing and delivering 3,500 cu. yds. of washed gravel; and for furnishing and delivering 700 cu. yds. trap rock broken stone, and 800 cu. yds. of trap rock screenings.

ADDITIONS TO REFRIGERATION PLANT.—New York, N. Y.—Bids will be received by the Department of Public Charities until 2.30 p. m., July 7, for furnishing all the labor and materials required for alterations and additions to the present refrigerating plant at the Kings County Hospital, Boro. Brooklyn. Michael J. Drummond, is Comr.

IMPROVING PLAYGROUND.—New York, N. Y.—Bids were received on June 22 by the Park Board for improving the playground on 101st St., between Second and Third Aves. Boro. Manhattan. The lowest bid opened was that of Kelly & Kelley, Inc., of Long Island City, as follows: 1,200 cu. yds. excavation, $1; excavation in building site, $700; 400 lin. ft. new curb, $1; 5,100 sq. ft. cement sidewalk, 20 cts.; 35 sq. yds. asphalt block roadway, $3; 620 cu. yds. concrete retaining walls, $6; concrete foundation for building, $3,100; 750 lin. ft. w.-i. picket fence, $2.50; 70 lin. ft. wire screen fence, $2; total, $17,515. Other bidders were: Atlanta Contracting Co., 434 East 91st St., $18,450; Cosgrove-Daly Co., 1968 Broadway, $19,700; Charles L. Doran, Inc., Contracting Co., 1015 Walton Ave., $17,842; the Dunbar Contracting Co., 440 East 68th St., $19,992; Evergreen Construction Co., 128 Third Ave., Long Island City, $23,332; Charles Meade & Co., 165 Broadway, $21,120; Record Granolithic Paving Co., 447 East 116th St., $23,988; Daniel J. Ryan, 723 Third Ave., Brooklyn, $22,315.

PIER.—New York, N. Y.—The plans of the Department of Docks and Ferries, it is reported for the construction of a 500-ft. pier at the foot of 95th St., North River, have been completed. Calvin Tomkins is Comr.

LIFE SAVING STATION BUILDINGS.—New York, N. Y.—Bids will be received until 2 p. m., July 13, by the U. S. Life Saving Service, Washington, D. C., for the construction of new buildings at the Blue Point, Quogue, Smith's Point and Tiana life saving stations, Long Island, N. Y.

IRON RAILINGS.—New York, N. Y.—Bids will be received by C. B. J. Snyder, Supt. School Bldgs., Dept. Education, until 11 a. m., July 17, for new iron railings, etc., at Public School 64, Ninth and Tenth Sts., east of Ave. B, Boro. Manhattan.

FIRE STATION.—Connellsville, Pa.—Bids will be received until 11 a. m., July 18, by A. O. Bixler, Secy. Town Council, for the construction of a municipal fire station on North Arch St.

PARK EXTENSION.—Harrisburg, Pa.—The Governor on June 16 signed the bill for the extension of Capitol Park. The bill provides for the acquisition of 28 blocks in Harrisburg, between the present line of the park and the Pennsylvania R. R. and carries an appropriation of $2,000,000, $200,000 to be available in the next two years and the balance at the rate of $450,000 per year for four years.

*CEMENT.—Reading, Pa.—Bids will be received until 10 a. m., July 25, by A. L. Rhoads, County Controller, Reading, for between 30,000 and 40,000 bbls. of cement.

ELEC. DRIVEN CAPSTANS.—Washington, D. C.—Bids were received as follows in July by the Bureau of Yards and Docks, Navy Dept., Washington, for 16 electrically driven capstans for the navy yard New York and naval station Pearl Harbor, T. H.: Williamson Bros Co., Aramingo Ave., and Cumberland St., Philadelphia, Pa., Item 1, $50,255. Hyde Windlass Co., 2 Federal St., Bath, Me., item 1, $53,290.

IRON STAIRWAY, ETC.—Washington, D. C.—R. V. La Dow, Supt. of Prisons, Dept. of Justice, Washington, D. C., will receive bids until 10 a. m., July 18, for c.-i. stairway, elevator door sills, etc., for hospital buildings at United States penitentiaries at Atlanta, Ga., and Leavenworth, Kan.

FOUNTAIN WORK.—Washington, D. C.—Bids will be received until noon, July 26, by the Columbus Memorial Commission, Washington, D. C., for foundations, concrete piles, masonry, etc., for the Columbus Memorial Fountain, to be erected on Union Station Plaza, Washington.

✚FIRE HYDRANTS.—Washington, D. C.—The contract for furnishing 200 fire hydrants for the District of Columbia, bids opened on June 20, has been awarded by the District to the GLAMORGAN PIPE & FOUNDRY CO., of Lynchburg, Va., at $31.80.

✚BRICK.—Washington, D. C.—The contract for furnishing 700,000 sewer brick for the District of Columbia has been awarded by the Commissioners of the District of Columbia to the FREDERICK BRICK CO., Frederick, Md. List of bidders noted on June 29.

MOTOR TRUCKS.—Washington, D. C. — Bids were received by the Bureau of Yards and Docks, Navy Dept., Washington, for electric motor trucks for Portsmouth, N. H.; Boston, Mass.; New York, N. Y.; Philadelphia, Pa.; Norfolk, Va.; Charleston, S. C.; Mare Island, Cal.; Puget Sound, Wash.; and Guam, on July 1, as follows: General Vehicle Co., Borden and Review Aves., Long Island City (L. I.), N. Y., item 1, $68,550, 2a, $66,100; 2b, $40,000. Commercial Truck Co. of America, 27th and Brown Sts., Philadelphia, Pa., $41,100 for eight 5,000-lb. trucks; $28,150 for four 10,000-lb. trucks.

*DREDGING.—Savannah, Ga.—Bids were received as follows on June 16 by Col. Dan C. Kingman, Corps Engrs., U. S. A., Savannah, for dredging 1,600,000 cu. yds. of material at Savannah: Morris & Cummings Dredging Co., New York, 19¼ cts. per cu. yd.; Miner Engineering Co., Washington, D. C., 14¾ cts.; Southern Dredging Co., Mobile, Ala., 15 cts.; Coastwise Dredging Co., Norfolk, Va., 15¼ cts.; Atlantic Gulf & Pacific Co., New York, 13.9 cts.; Home Dredging Co., Mobile, Ala., 11.6 cts.; P. Sanford Ross, Inc., Jersey City, N. J., 13.69 cts.; North American Dredging Co. of Texas, Galveston, Tex., 16.1 cts.; Mitchell & Co., New York, city front, 650,000 cu. yds. at 18 cts., Wrecks Channel, 600,000 cu. yds. at 20 cts., Long Island Crossing, 350,000 cu. yds. at 16½ cts.

IMPROVEMENT TO WATER FRONT.—St. Petersburg, Fla.—The citizens have voted to issue $35,000 of bonds for water front improvements and $15,000 for improvements to Reservoir Lake Park.

*SHORE REVETMENT.—Jacksonville, Fla.—Bids will be received until noon, Aug. 3, by Capt. George R. Spalding, Corps Engrs., U. S. A., Jacksonville, for dredging and shore revetment at St. Johns River, Fla.

DRAINAGE CANAL.—Merigold, Miss.—Bobo & Brannon, Civil Engrs., Clarksdale, Miss., will receive bids until 8 p. m., July 20, for excavating a drainage canal, about 2½ miles long, for the Sunflower Plantation at Merigold. The work involves about 35,000 cu. yds. of excavation. Profile and specifications are on file at the office of Taylor & Crate, 1433 Exchange Bldg., Memphis, Tenn.; at Clarksdale, and at office of J. A. Reves, Merigold.

✚LEVEE WORK.—New Orleans, La.—The contract for work on the Jeter, Bossier Par, Loggy Bayou and Red River Par Coves levees has been awarded to LINNAN BROS., of Baton Rouge, La., at 12.49 cts. per cu. yd. for 48,500 cu. yds., and 22.5 cts per cu. yd. for 35,000 cu. yds.

LUMBER.—Memphis, Tenn.—Bids will be received until noon, July 28, by the Mississippi River Commission, First and Second Districts, U. S. Engineer Office, Memphis, for furnishing about 691,624 ft. B. M. of yellow pine and oak lumber.

✚DREDGE.—Nashville, Tenn.—The contract has been awarded, it is reported, by the Government to the MARION SHOVEL & DREDGE CO., of Marion, for building the dredge "Tellico," at $16,248. Bids were opened on June 6 by Maj. William W. Harts, Corps Engrs., U. S. A., Nashville. List of bidders noted on June 22.

✚COMFORT STATION.—Akron, Ohio.—The contract for the erection of a public comfort station at Main and Market Sts., has been awarded by the Board of Control to HUNT & WIGLEY, Akron, at $7,470.

STREET SIGNS.—Columbus, Ohio. — No bids were received by the city on June 30 for street signs. New bids will be asked. H. S. Holton is Dir. Pub. Wks.

WALL.—South Bend, Ind.—Bids will be received by the Board of Park Commissioners, until July 7, for constructing a concrete retaining wall at Leeper Park. A. P. Perley is Secy.

✚REPAIRS OF DAMS.—Rock Island, Ill.—Contracts have been awarded for repairs to and construction of dams and shore protection, as follows: ALBERT KIRCHNER, of Fountain City, work between Reed's Landing and Alma, $40,000; ALBERT FETTER, of Quincy, between Genoa and Lynxville, $40,000; ALBERT KIRCHNER, between McGregor and Dubuque, $80,000; ALBERT FETTER, between Rock Island and Muscatine, $80,000; CHARLES RUSK, St. Louis, between Keokuk and Hannibal, $75,000.

*LEVEE.—East St. Louis, Ill.—Bids for the construction of a concrete wall about 120 ft. long and an earth levee having a crown eight ft. to 12 ft. wide and a length of about ten miles, being Construction Projects Nos. 3 and 4, Sections 2 and 3 of Front Levee, and other auxiliary or incidental improvements, in accordance with Ordinances Nos. 17 and 18 of The East Side Levee and Sanitary District and the plans, profiles and specifications for the same, now on file in the office of the Clerk will be received at the office of the Board of Trustees until noon Aug. 5. Bids should be based on the following estimates: 1,600,000 vu. yds. of earth embankment; 1,400 cu. yds. concrete; 250 lin. ft. c.-i. pipe culvert, 24-in. and 30-in. diameter; 330 lin. ft. 24-in. vitrified pipe culvert, three hand-gates and three automatic flood gates. The work will be partly side borrow work and partly train haul, and will be let in five sections. Section 2 of the Front Levee will extend from Mitchell, Madison County, Ill., in a southwesterly direction to the approach of Merchants Bridge, in the northwesterly part of the city of Venice, Ill., a distance of about eight miles. Section 3 of the Front Levee will extend from the approach of Merchants Bridge in a southerly direction to a point about two-third of a mile south of the Madison-St. Clair County line, a total distance of about two miles. H. D. Sexton is Pres. Bd.

CANAL.—Belleville, Ill.—Bids will be received by the Commissioners of the Richland Creek Drainage District until July 12 for the excavation of a drainage canal four miles and laterals 1¼ miles. W. C. Wolf, of Belleville, is Engr.

CRUSHED GRANITE.—Chicago, Ill.—Bids will be received until July 7 by L. E. McGann, Comr. Pub. Wks., for furnishing and delivering about 5,000 cu. yds. of crushed granite f. o. b. cars to the most convenient switch track to the various yards of the city.

✚DREDGING AND EXCAVATING TAIL RACE.—De Pere, Wis.—The De Pere Electric Light & Power Co. has awarded the contract for deepening the tail race, dredging and excavating to J. S. RITCHIE, De Pere, at $10,000. O'Keefe & Orbison, Appleton, Wis., are Engrs.

CRUSHED STONE.—Oshkosh, Wis. — The Board of Public Works will receive bids until 2 p. m., July 10, for furnishing crushed stone to be delivered in the Fourth Ward.

*DRAINS.—Elkhorn, Wis.—Bids will be received until 2 p. m., Aug. 1, by the Commissioners of Turtle Creek Drainage District No. 1, for constructing drains. For details see advertisement in this issue. Henry D. Barnes is Secy., Elkhorn.

TILE DRAIN.—Pocahontas, Iowa.—Bids will be received by the Secretary of the Saylor and Olson Drainage District until July 10 for about 9,100 ft. of 12 to 24-in. tile drain.

CONDUIT.—Sioux City, Iowa.—The City Council on June 15, awarded the contract it is reported, for the construction of the Perry Creek conduit to LEWIS & LEEDER, of Sioux City, at $13,646.

DITCH.—Crookston, Minn.—H. J. Welte, County Audr., will receive bids until 10 a. m., July 15, for the construction of County Ditch No. 86.

✚DITCH.—Minneapolis, Minn.—A. C. DAVISSON has been awarded the contract for digging the Rush Creek ditch in Maple Grove and Rush Creek townships at 10⅞ cts. per yd. Frank H. Nutter is County Drainage Engr.

DITCH.—Minneapolis, Minn.—A. P. Erickson, County Audr., will receive bids until 11 a. m., July 11, for the construction of ditch No. 22, about 34,100 yds. of excavation.

DRAINAGE CANAL.—Wichita, Kan.—The City Commissioners of Wichita and the Commissioners of Sedgwick County on June 24 decided to unite in the extension of the new drainage canal and the construction of several concrete bridges. The total estimated cost of these improvements will be about $70,000, the city and county each to pay one-half. Bids will be asked soon.

*STONE DIKE.—Galveston, Tex.—Bids will be received until noon, Aug. 4, by Maj. G. P. Howell, Corps Engrs., U. S. A., Galveston, for constructing a stone dike in St. Joseph Island, Aransas Pass, Tex.

✚AERIAL TRAMWAY.—Leadville, Colo.—The HAMPSON-FIELDING ENGINEERING CO., 1711 Wazee St., Denver, Colo., representative of the Broderick & Bascom Wire Rope Co., have secured the contract for a 6,000-ft. aerial tramway to the Mount Champion Mining Co., at Leadville. The construction work will commence immediately.

DREDGING.—Seattle, Wash.—Bids will be received by Maj. C. W. Kutz, Corps Engrs., U. S. A., Burke Bldg., Seattle, until noon, July 26, for dredging in Willapa River and Harbor, Wash.

STEAMERS.—Seattle, Wash.—It is reported that the Pacific Coast Steamship Co., 77 Washington St., will soon ask for bids for the construction of two 8,000-ton turbine passenger steamers to cost $1,500,000 each, for traffic between Puget Sound and California ports.

REPAIRS TO STEAMERS.—Seattle, Wash.—The Moran Co., Seattle, it is reported, has submitted the lowest bid for repairs and alterations to the steamer Victoria of the Alaska Steamship Co., at about $150,000. The improvements consist of converting the vessel into an oil burner, installing new boilers, overhauling machinery and rebuilding passenger accommodations.

✚OIL BURNER SYSTEM.—Portland, Ore.—The contract has been awarded to the JOHN WOOD IRON WORKS, 103 East Water St., Portland, for equipping the government dredge "Clatsop" with an oil burner system, at $18,500.

SEAWALL.—Coronado Beach (Coronado post-office), Cal.—The City Engineer has submitted plans to the City Trustees for the construction of a reinforced-concrete seawall along the ocean front. Estimated cost, $22,000. An 8-ft. boardwalk is provided for. Bids will be asked.

✚DREDGING.—Los Angeles, Cal.—The contract has been let by the Consolidated Lumber Co., at Wilmington to the AMERICAN DREDGING CO., 95 Market St., San Francisco, Cal., for dredging the upper inner harbor, at about $40,000. A channel 200 ft. wide and 25 ft. deep at low tide is to be made. The wharf will also be lengthened about 250 ft.

DREDGING.—San Francisco, Cal.—Bids will be received until noon, July 24, by Col. John Biddle, Corps Engrs., U. S. A., Custom House, San Francisco, for dredging in San Pablo Bay, Cal.

✚*STONE.—San Francisco, Cal. — Bids were received on May 29, by Col. John Biddle, Corps Engrs., U. S. A., 401 Custom House, San Francisco, for furnishing and delivering stone for Humboldt Harbor jetties. The contract has been awarded to W. G. CORBALEY.

*REMOVING ROCK.—San Francisco, Cal.—Bids for removing Rincon Reef and Contissima Rock, in and near San Francisco Bay, Cal., will be received until noon, July 27, by Col. John Biddle, Corps Engrs., U. S. A., San Francisco.

WHARF.—Watsonville, Cal.—Plans and specifications for the construction of a wharf at Port Watsonville for the Watsonville Ry. & Navigation Co., F. E. Snowden, Pres., are being prepared by the American Engineering Corporation. Bids will be asked as soon as plans have been completed.

RETAINING WALL.—San Bernardino, Cal.—The County Engineer is preparing plans and specifications for the construction of a large retaining wall to protect the bridge over the Santa Ana River on Orange St., between Redlands and Highland. Bids will be asked on a reinforced concrete and a concrete wall.

WIRELESS TELEGRAPH STATION.—Sault Ste. Marie, Ont.—Bids will be received until July 15, by G. J. Desbarats, Dep. Minister Marine and Fisheries, Ottawa, Ont., for the erection of a wireless telegraph station. Specifications, etc., on application to Superintendent Wireless Telegraphs, Ottawa, or office of Superintending Engineer, Canal, Sault Ste. Marie.

ROAD MACHINERY.—Toronto, Ont.—Bids will be received by the Board of Highway Commissioners of York County until July 7

for supplying two road rollers nominally ten tons, two scarifiers, two road graders, two sprinkling carts, four wheel scrapers No. 2, four No. 2 drag scrapers.

*DOCK.—Toronto, Ont.—The contract has been awarded to MILLER & GIBSON, of Toronto, by the Board of Control for the construction of a dock in Ashbridge Bay, at about $119,900. C. H. Rust is City Engr.

SEAWALL.—Toronto, Ont.—The time for receiving bids for the construction of a seawall in Lake Ontario in the vicinity of the Exhibition Grounds has been extended to noon, July 17. Bids were to have been opened on July 3 by F. S. Spence, Acting Mayor, and Chn. Bd. of Control.

DOCK.—Prince Rupert, B. C.—The Grand Trunk Pacific Ry. Co., it is reported, is considering the construction of a dock and other improvements here. B. B. Kelliher is Ch. Engr., Winnipeg, Man.

U. S. POSSESSIONS AND CUBA.

MOTOR TRUCK.—Guam.—See item under Miscellaneous Contract: Motor Trucks, Washington, D. C.

ELEC. DRIVEN CAPSTANS.—Hawaii.—See item under Miscellaneous Contracts: Elec.-Driven Capstans, Washington, D. C.

DAM.—Cuba.—The Cienfuegos, Palmira & Cruces Power & Ry. Co., it is reported, will erect a large dam to develop water power for the generation of electricity in the Trinidad Mountains. This company has been granted a concession to build lines from Cienfuegos across Santa Clara Province to Isabela do Sagua, about 300 miles. Hugh John Reilly, Jr., Cienfuegos, Cuba, is Gen. Mgr. Bruno Diaz, Havana, Cuba, is Pres.

EXAMINATIONS.

*ASSISTANT ENGINEER ON PITOMETER AND WATER WASTE WORK.—New York, N. Y.—The Municipal Civil Service Commission will receive applications until 4 p. m. July 19, for the position of Assistant Engineer on Pitometer and Water Waste Work to be held on Aug. 11 at 10 a. m. Candidates are required to have had three years' experience in field work and a thorough knowledge of principles and practice of hydraulics. The subjects and weights are: Technical, 6 points; Experience, 3 points; Report, 1 point; 75% required on technical and 75% on all. The salary will be from $1,800 to $3,000 a year. F. A. Spencer is Secy.

ASSOCIATE STATISTICIAN.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Aug. 5, to secure eligibles from which to make certifications for the appointment of Associate Statisticians in the Interstate Commerce Commission, at salaries ranging from $2,000 to $3,000 a year, and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interest of the service to fill such vacancies by reinstatement, transfer or promotion. No merely scholastic or academic tests will be given, and competitors will not be required to be assembled for examination. It is desired to secure the services of statisticians in connection with the efforts of the Interstate Commerce Commission to improve, in a general way, the statistical reports made to the Commission by the carriers and the compilations made therefrom, in order to make the same as useful as may be practicable in their application to rate questions and other controversies upon which the Interstate Commerce Commission must pass from time to time, as well as for the general use of the public. The ratings in this examination will be based upon evidence of fitness, as follows: (1) General and special education and training. All education and training of the applicant will be considered. A college education, although not considered indispensable, is deemed advantageous. It is essential that applicants should have a thorough training in economics and statistics, and have a general knowledge of railway transportation in the United States. Additional training in some branches of mathematics, accounting, law or engineering will be desirable. (2) Business and technical training and experience. Consideration will be given all the applicant's training and experience which in any way tends to fit him for the duties of a statistician. The evidence of this training will fall into the following classification: (a) Important supervisory training and experience in statistical work, with ability to plan or initiate and carry to a conclusion statistical investigations, preferably in connection with public service commissions or with railways; (b) special training in law, accounting or engineering; (c) business or professional experience; (d) any writings, the result of original work, which the competitor may have published on an economic subject of any kind, including financial and statistical, or in relation to corporations. In view of the importance of this examination, a high standard in the rating will be adopted, and only those persons who show conclusively by the evidence submitted by them that they are qualified to perform the duties of the position will be given eligible ratings. All statements relating to training, experience and fitness are subject to verification. Applicants must have reached their 25th, but not their 48th, birthday. Examination form 304.

INDUSTRIAL NOTES.

MR. W. O. DUNTLEY, President of the Chicago Pneumatic Tool Co., sailed June 27 for Europe, where he will spend several weeks in the interest of the company's foreign business.

MR. FRANK W. HALL, Mgr. of the Philadelphia office of the Sprague Electric Works, has been appointed Manager of Hoist Sales and after July 15 will be located at the New York office, 527-531 W. 34th St.

THE JOHN F. ALLEN CO., 370 Gerard Ave., New York, N. Y., builders of the Allen riveting machines, are now represented in San Francisco, California, Oregon and Washington by the Berger & Carter Co., who carry a full stock of the Allen riveters for immediate delivery on the Pacific Coast.

THE UNITED STATES CIVIL SERVICE COMMISSION, Washington, D. C., announces an examination on Aug. 5 for Associate Statisticians. The work involved will be of high order for the Interstate Commerce Commission and will consist in revising forms and solving problems of expense in railway operation and maintenance. The salary will be from $2,000 to $3,000 a year.

(Continued on page 12.)

LIST OF CONTRACTS PENDING

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file for reference only unless otherwise noted at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
7- 8	Dock renewal, Norfolk, Va...(S.)	6-29
7- 8	Concrete walks, Norfolk, Va.(S.)	6-22
7- 8	Wharf, etc., Cuba............(S)	6-15
7- 8	Power plant equip, Vallejo, Cal. .... (S)	6-15
7- 8	Boilers, etc., Hawaii..........(S)	6-15
7-24*	Dam, Waynesville, N. C.......... (P. & S.)	6-29
——	Factory, Bridgeport, Conn....... (P. & S.)	6-29

Light, Heat and Power Plants.

7- 8	Power plant equipment, Vallejo, Cal.	6-15
7-10	Dam, power house and equipment, Tower, Minn.	7- 6
7-12	Direct-current turbo-generator, Kansas City, Mo.	7- 6
7-12	Heating system, Columbus, Ohio.	6-22
7-14	Boilers and accessories, New York, N. Y.	7- 6
7-15	Electrical equipment, Prince Albert, Sask.	7- 6
7-15	Conduits, wiring and lighting fixtures, Philadelphia, Pa.	6-15
7-24	Electrical apparatus, Moose Jaw, Sask.	6-29
7-25	Heating plant, Denbigh, N. Dak.	7- 6
7-27	Steam boilers, New York, N. Y..	7- 6
8- 1	Electric railway, Brantford, Ont.	6-29
1-30, 1912	Power generating and pumping plants, Australia (Foreign).	6-15

Bridges.

7- 6	Bridges, Harrisville, W. Va.	7- 6
7- 7	Bridge, Jacksonville, Fla.	7- 6
7- 7	Bridge, Cincinnati, Ohio	6-22
7- 7	Bridges, Alma, Kan.	6-29
7- 8	Bridges, Richmond, Ind.	6-29
7- 8	Bridge, Eldorado, Kan.	6-29
7- 8	Bridge, Pleasant Hill, Ill.	7- 6
7- 9	Bridge work, etc., Newark, N. J.	7- 6
7-10	Bridges, Lakeport, Cal.	7- 6
7-10	Bridge, Indianapolis, Ind.	7- 6
7-10	Bridge, West Chester, Pa.	6-29
7-10	Bridges, Richmond, Tex.	6-22
7-10	Bridge work, Victoria, B. C.	6-29
7-10	Bridge, Redding, Cal.	6-29
7-11	Bridge work, Boston, Mass.	7- 6
7-11	Bridges, Vacaville, Cal.	7- 6
7-12	Bridge, Woodland, Ill.	7- 6
7-12	Bridge work, Cleveland, Ohio...	6-22
7-12	Bridge, Columbus, Ohio	6-22
7-15*	Bridge, Massena, N. Y.	6-29
7-17	Bridges, Mankato, Minn.	6-22
7-17	Bridge, McElhattan, Pa.	6-29
7-17*	Bridge, Fitchburg, Mass.	6-29
7-17*	Bridge, Baltimore, Md.	7- 6
7-17	Bridge, Sharpstown, Md.	7- 6
7-19	Bridge work, Cleveland, Ohio...	7- 6
7-19	Bridges, Fargo, N. Dak.	7- 6
7-19*	Superstructure, Cincinnati, Ohio.	6-29
7-20	Bridge, Ottawa, Ill.	7- 6
7-22	Bridges, De Witt, Ark.	7- 6
7-25	Bridges, Albany, N. Y.	6-22
7-26	Bridge, South Bend, Ind.	7- 6
9- 1	Bridges, Siam (Foreign)	6-29

Buildings.

7- 6	Building, Corsicana, Tex.	7- 6
7- 7	School, Holdingford, Minn.	7- 6
7- 7	Public building, Hutchinson, Kan	7- 6
7- 7	School, Lake, Ind.	6-29
7- 7	Schools, Dana, Ind.	6-29
7- 8	Hospital, Malone, N. Y.	7- 6
7- 8	School, Butler, Pa.	7- 6
7-10	School, Cleveland, Ohio	7- 6
7-10	School, Pendleton, Ore.	6-29
7-10	U. S. post-office, Ellsworth, Me..	6- 8
7-10	School, Albany, N. Y.	6-15
7-11	Railway shops, Winnipeg, Man..	5-15
7-11*	Dormitory, Sonyea, N. Y.	6- 8
7-11	Car shops, Transcona, Man. (Mfg. Pl.)	6-22
7-11	Hospital, Fairfield, Iowa	6-22
7-11	Station bldgs., Ottawa, Ont.	6-22
7-11	Bldg., Birmingham, Ala.	6-22
7-12	School, Newark, Ohio	6-22
7-12	U. S. post-office, Milford, Mass.	6- 8
7-12	Schools, Topeka, Kan.	6-15
7-12	School, Newark, Ohio	6-29
7-14*	Hospital, Fort Strong, Mass.	6-29
7-14	Town hall, Nahant, Mass.	7- 6
7-15	School, Athens, Ohio	7- 6
7-15*	U' S. post-office, Cordele, Ga.	6- 8
7-15	Court-house, Mansfield, La.	6-29
7-17	U. S. post-office, Ironton, Ohio..	6-15
7-17	School, Lewistown, Mont.	7- 6
7-18	Cement bldg, Key West, Fla.	7- 6
7-18	School, Lowellville, Ohio	7- 6
7-18	Hospital, Canton, Ohio	6-29
7-19	School, Whippany, N. J.	6-29
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7-14	Water-works, Flora, Ill.	7- 6
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CURRENT PRICES OF ENGINEERING MATERIALS

Supplement to ENGINEERING NEWS, appearing in the First Issue of Each Month. New York, July 6, 1911.

PRICE CHANGES AND THE BUSINESS OUTLOOK.

The volume of business improved during the first half of June and sentiment was distinctly more favorable than any time this year. Within the last fortnight a change has been noticed and, while there is no distinct pessimism, business men seem afraid to go forward with important deals. This change has been largely brought about by Government invesigations and the indictment of men standing high in the business world. It was thought when the Standard Oil and the American Tobacco decisions were announced that the business community would feel a relief from Government prosecution. Evidently, this thought was vain. The most serious thing regarding the recent indictments of the copper wire men is that these men stand high in the business community in which they live. They have transacted business on sound principles and have not stooped to petty jobbery. If their acts are illegal, the business world is inquiring who then has been doing business within the letter and spirit of the law.

The long continued dry weather all over the country and particularly the West and Southwest has had an unfavorable effect on crops, and the crop outlook is quite uncertain. With more regard to general conditions of past years than the condition of the present crop, it may be said that the damages from dry weather are usually overestimated. If the plant gets a fair start in the spring, as it did this spring, the crop is likely to do well.

Continued weakness has been noted in the iron and steel markets, the price of steel scrap having declined from 50 cts. to $1, foundry pig iron being lower than last month by 50 cts. and lower prices being named on wire, nails, corrugated roofing and many manufactured articles. The cut in prices, announced last month, brought business and the U. S. Steel Corporation is now working to 68% of capacity, compared with 58% a month ago.

A corner in pig tin resulted in raising the price of this important metal to a new high level, 50.75 cts. Other metals have been more active, copper having advanced in price on large transactions and both lead and spelter are slightly firmer.

Construction work is slightly more active, several important railroad plans having been announced within the last fortnight. The idle cars on the tracks of American railways shows a reduction compared with the month previous, but are about 40% more numerous than at the corresponding time last year. Railway financiering has been in evidence since last month, and some of the important railway systems have brought out new capital issues, the proceeds of which will be expended in the near future.

The gross earnings of American railways are smaller than at this time last year and bank clearances are less.

Building construction has fallen off and reports to the Construction News Department show fewer factory buildings as well as a lessened number of mercantile and residential structures.

The reports of several large industrial organizations recently issued state that they have fewer orders on their books than a year ago.

In Canada business is very active, all kinds of construction work being pushed forward rapidly. New railway work in the Dominion is especially active.

LABOR.

While the demand for laborers for Barge Canal work, road improvements and the Catskill Aqueduct shows an improvement, there are still many men out of employment. The Italian laborers in New York are unwilling to go far from the City and consequently most of the contract labor being sent out on such construction work are other nationalities. The Italians believe that subway construction will soon open and as this will be a steady job, they are waiting for this work.

The wages paid are lower than last year, or $1.50 per day of eight hours, but it is noticeable that contractors who have large jobs on hand are rushing the work, in many cases working Sundays, in order to take advantage of these favorable labor conditions. The machinists' strike in New York is still unsettled and it appears to be a waiting proposition to both parties of the controversy. It should be noted that one of the largest firms involved, the E. W. Bliss Co., has passed dividends on its stock, presumably on account of the diminished earnings brought about by the strike. Little difficulty is experienced in getting machinists, but as many of the firms involved in New York have trained their men for several years, it is natural that they wish to get their old employees back. There has been a strike of considerable magnitude in the Baldwin Locomotive Works, but a statement recently made through one of the attorneys is to the effect that the strike is now practically a thing of the past. There has been a steady return of nearly all the employees in almost all the departments. Higher wages are demanded by seamen and dock laborers. The demand for skilled labor is small.

CEMENT, LIME AND BRICK.

PORTLAND CEMENT.—Business continues apathetic with larger sellers working to about 80% of capacity, while the smaller mills are really sold up to their full output or to something like 70%, according to their eagerness to obtain contracts earlier in the year. Little animation is noted in the market and cement sellers seemingly do not expect any large business this summer. While all are looking forward to large sales as soon as the New York subway work commences, this has been postponed so many times that they are fearful that it may never come. The probabilities are, however, that this work will be started within the next six weeks. Sellers of cement, as far as the present is concerned, have little to fear from an investigation by the Government. As competition is so keen, there are no agreements whatever.

As stated, quotations in New York are $1.48 to $1.53 per bbl., with an allowance of 40 cts. for bags returned. In Boston, $1.62 is quoted in wooden bbls. and the same price in cloth sacks, with an allowance of 40 cts. for sacks. In that market cement in paper bags can be had at $1.42. On the Pacific Coast prices range from $2 to $2.40 per bbl. The Eastern quotation represents a price of 85 to 95 cts. per bbl. in bulk at the mill.

Imported cement is unchanged at $2.42 for Alsen's and $2.43 for Dyckerhoff's.

NATURAL CEMENT.—Business is quiet and quotations continue without change at 80 cts. per bbl. in New York and $1.05 in Boston.

PLASTER BLOCKS.—For large lots, prices are as follows:

	Weight, lbs. per sq. ft.	Price, cts. per sq. ft.
2-in.	7	6
3-in.	8½	6½
4-in.	11	7¼

These blocks are made 32-in. long by 13½-in. wide, containing 3 sq. ft. of surface. The 2-in. blocks are solid, but the others are hollow.

Plaster boards, ⅝-in. thick, are 16 cts. per sq. yd.

BRICK.—Nearly 90% of the makers of Hudson River common brick have united to effect a sales organization. At a meeting held June 23, at 103 Park Ave., New York City, Mr. John B. Rose, Roseton, N. Y., was elected President; Mr. Aaron B. Aldridge, Fishkill, N. Y., Vice-President; Mr. Frank D. Noyelles, Haverstraw, N. Y., Secretary, and Mr. Robert Mann, Saugerties, N. Y., Treasurer. This organization will not attempt to regulate prices, but will try to provide manufacturers with better selling facilities, and salesmen who formerly worked for individual brick manufacturers will be offered positions with the new company. The company will likewise purchase all supplies used by the brick manufacturers. Some of the largest makers of brick on the Raritan River, as well as in the Hackensack and Connecticut districts, are not parties to this new agreement.

The price of brick is slightly higher than a month ago at $6 to $6.37½. In Chicago demand is firm, with prices unchanged at $7 per thousand.

White enameled brick are held at the unchanged price of $60 per thousand for the American size (8¾ × 2¼-in. enameled surface by 4⅛-in. bed), and $70 to $75 for the English size (9 × 3-in. enameled surface by 4½-in. bed). These prices are f. o. b. Perth Amboy.

LIME.—The following prices are for lots of 500 bbls., delivered in New York City: State common, per bbl., 75 cts.; Rockland-Rockport, common, 92 cts.; Rockland-Rockport special, 300 lbs., $1.37; finished, 300 lbs., $1.47; finishing, 200 lbs., $1.02, and 350 lbs., $1.62; New Milford, $1.30.

STONE.

BLUE STONE.—The demand while broad is not equal to that of a month ago. Sales are made at 18 cts. for 3-in. stone and there is less talk of 19 cts. than last month. At the same time stocks are not large.

For delivery, either alongside of dock, f. o. b. cars, New York, prices, are without change, as follows: Flagging, 6 cts. per sq. ft. per in. of thickness; flagging, 2½ to 3-in. thick, that will pass New York City specifications, 18 to 19 cts. per sq. ft. Sewer bottoms, 5 ft. sq. and 3-in. thick, are sold at 25 cts. per sq. ft. Curbing, 5 × 16-in., is 40 cts., and 5 × 25-in., by 5-in. thick, is 60 cts., and 6-in. thick is 65 to 70 cts. per lin. ft., 5 × 20-in. by 5-in. thick is 50 cts.

Promiscuous shapes of building and foundation stone sell at 70 to 75 cts. per cu. ft.

GRANITE.—Prices continue without change at 40 to 45 cts. per cu. ft. for promiscuous shapes or run of quarry.

Pink Milford granite is in fair demand and unchanged in price at $1 per cu. ft. for promiscuous shapes.

LIMESTONE.—Prices are unchanged at 85 cts. per cu. ft., delivered alongside of dock, New York. Dressed stone is quoted at $1.25 to $1.50 per cu. ft.

Sandstone in the rough is 80 cts. to $1 per cu. ft.

INTERIOR STONE.—Slate flooring, 1-in. thick, can be had at 20 cts. per sq. ft. for the common or ribbon variety. Clear black sells at 35 to 40 cts., and the same price is asked for Vermont. A combination of slate and marble flooring is 30 cts. per sq. ft.

Marble floor, finished ready to lay, of Vermont marble, is 50 to 70 cts. per sq. ft.; Italian marble, 70 to 90 cts. Tennessee marble can be had at 65 cts. Ordinary stair work, such as slate steps, are quoted at 24 cts. per sq. ft.

CRUSHED STONE, SAND AND GRAVEL.

CRUSHED STONE.—There is only a fair demand. Prices for the most part are steady, but a desirable order will sometimes result in the shading of prices to the extent of 5 cts. a yard.

Prices are as follows: For 1½-in. stone, 85 to 95 cts.; for ¾-in. stone, 90 cts. to $1. Screenings are likewise sold at the same price. These quotations are for full cargo lots of 500 cu. yds. delivered alongside of dock New York City. In Boston quotations are unchanged from last month as follows: ¾-in., 85 cts.; 1½-in. stone is 75 cts. and 2½-in. is 65 cts. These prices are f. o. b. quarry.

SAND.—The market for sand is firm and the demand is fair. Sales are being made at 25 cts. delivered alongside dock New York for full cargo lots. For sand delivered in smaller quantities, less than 500 cu. yds. or delivered in shallow water, an extra charge is made, and these prices rule from 35 to 40 cts. per cu. yd. Delivered at Newark, sand is selling at 35 to 40 cts.

White quartz sand is 60 cts. per cu. yd. and white quartz grit, 75 cts. per cu. yd. All of these prices are for delivery alongside of dock, New York, and for full cargo lots of 500 yds.

In Boston sand sells at 35 cts. per cu. yd., to which is added the freight of about 50 cts.

GRAVEL.—The demand is fair, but sellers of gravel can supply needs promptly. The prices are absolutely without change at 75 to 85 cts. per cu. yd. delivered alongside dock, New York. These prices rule for full cargo lots of 500 cu. yds. White quartz roofing gravel is $1.25 to $1.35 per cu. yd.

IRON AND STEEL.

PIG IRON.—The market has improved during the month, and, while quotations have not advanced, and the market has declined, the situation is much better than when the last report was written. The U. S. Steel Corporation is now operating to 68% of capacity, compared with 66% a fortnight ago and 58% a month ago. The pig iron trade has improved almost in direct proportion to the steel trade. Some favorable signs noted have been the buying of cars and equipment by the railways, and the feeling in general throughout the country that after the physical year, ending June 30, many of the railways will buy equipment more freely. The manufacturers of agricultural implements and machinery have been in the market frequently for iron, and the same is true of the cast-iron pipe interests. It must be said that all of the tonnage sold has been in small lots for nearby delivery, there having been little inquiry for future positions or speculative iron.

Consumers are taking iron on contracts without hesitation, and there is less iron held up than a month ago.

For lots of 100 gross tons and over, f. o. b. points named, quotations are as follows: Cincinnati, Southern foundry No. 1, $13.75 to $14.25; Southern foundry No. 2, $13.25 to $13.75; Southern foundry No. 4, $12.50 to $12.75. Philadelphia, Eastern Pennsylvania No. 2X foundry is $15 to $15.25, and Eastern Pennsylvania No. 2 plain foundry, $14.75 to $15. In Chicago, Northern foundry No. 2 is $15; Southern foundry No. 2, $14.35 to $14.60. In Pittsburg, Bessemer iron is $15.90, and basic, $13.90. These quotations include the 90 ct. freight rate from the Valley, Pittsburg. In New York, Northern foundry No. 2X is $15 to $15.50; Southern foundry, No. 2, $14.25 to $14.75. In Birmingham, the market is broken, and No. 2 Southern foundry can now be had at $10.00. These quotations represent a lower range of pig iron price than any time since 1904.

STEEL RAILS.—The buying of rails has been of larger volume than for over a year, the buying by small roads having been especially noticeable. Among June orders is included 4,000 tons for the Pittsburg Rys, 5,000 tons for the Great Northern, an order for the Canadian Pacific, and several orders for Eastern roads. The Texas-Pacific is likewise in the market for 1,600 tons of rails. There has also been a noticeable increase in the inquiry for alloy rails, and on some roads, at least, they appear to have passed beyond the experimental stage.

Qquotations being as follows for lots of 500 tons and over: Standard sections, 50 to 100-lbs. per yard, 1.25 cts. per lb.; 40 to 45-lbs., 1.16 cts.; 30 to 35-lbs., 1.20 cts.; 16, 20 to 25 lbs., 1.21 cts.; and 12-lb. rails, 1.25 cts. Relaying rails are unchanged in New York, at $20 to $21 per gross ton. In Chicago, standard sections, subject to inspection, are unchanged from last month, at $22 to $23 per gross ton.

TRACK SUPPLIES.—All kinds of track fastenings are in better demand, and are in proportion to the order for rails. Inquiries for spikes have been considerably larger, one road having placed an order for 2,500 kegs and another for 2,000 kegs.

Quotations are unchanged, at $1.60 per 100 lbs., Pittsburg. In Chicago, prices are likewise without change, at $1.65 to $1.70. The extras are unchanged and repeated from last month as follows:

Railroad Spikes.		Cents.
3, 3½, 4, 4½ and 5 × ½	Extra	.10
3½, 4 and 4½ × 7/16	Extra	.20
3, 3½, 4 and 4½ × ⅜	Extra	.30
2½ × ⅜	Extra	.40
2½, 3 and 3½ × 5/16	Extra	.60
2 × 5/16	Extra	.80
Boat Spikes.		
⅝ in. square, 8 to 16 in. long	Extra	.15
⅞ in. square, 2 to 16 in. long	Extra	.15
½ in. square, 6 to 16 in. long	Extra	.15
7/16 in. square, 6 to 12 in. long	Extra	.20
⅜ in. square, 4 to 12 in. long	Extra	.30
5/16 in. square, 4 to 8 in. long	Extra	.45
¼ in. square, 4 to 8 in. long	Extra	.75
¼ in. square, 3 to 3½ in. long	Extra	1.00

Track bolts with square nuts are 2.15 to 2.25 cts. per lb., base in carboad lots, Chicago.

STRUCTURAL STEEL.—Railway bridge work is going forward actively, and some good orders have been booked for small bridges. The demand for light bridges for highway work has been unusually active. With all the work that is being placed, much more is being figured on, and should all of these inquiries be turned into orders the structural mills would be very active. Among the orders received have been those for the buildings of the Pittsburg Crucible Steel Co., at Midland, Pa., 8,500 tons; Louisville & Nashville bridges, 3,800 tons; International Harvester Co., 500 tons. In the Chicago district, it is estimated that the railway structural contracts recently closed involved at least 100,000 tons. In New York a building for the Adams Express Co. will involve 2,500 tons; a pier shed for the Lackawanna Railroad, 1,000 tons, and numerous bridge and building contracts involving less than 1,000 tons.

There is no doubt that the cut in prices announced last month brought business.

The following quotations are named in cts. per lb., f. o. b. Pittsburg: I-beams and channels, 3 to 15-in., 1.35 to 1.40 cts.; over 15-in., 1.50 cts.; H-beams, over 8-in., 1.60 cts.; angles, 3 to 6-in., inclusive, 1.45 cts.; angles over 6-in., 1.50 cts.; zees, 3-in. and over, 1.45 cts.; angles, channels and zees under 3-in., 1.45 base and full extras; deck beams and bulb angles, 1.70 cts.; hand rail tees, checkered and corrugated plates, 1.75 to 1.90 cts.

Chicago store prices in cents per lb. are as follows: Angles, 3 to 6-in., 1.75 to 1.90 cts.; over, 6-in., 1.85 to 1.95 cts.; I-beams and channels, 1.75 to 1.90 cts. In San Francisco, prices from store continue without change at 2.70 cts. base.

CAST-IRON PIPE.—More activity has been noted in the market for cast-iron pipe, and numerous orders have been placed. The Great Northern Ry. ordered 1,000 tons; Muskogee, Okla., 2,500 tons; San Diego, Cal., 7,500 tons; Gadsden, Ala., 1,000 tons, and contracts will shortly be closed for 2,000 tons for Hammond, Ind.; 1,000 tons for Columbus, Ohio; 4,000 tons for Cleveland, and 1,000 tons for New York. There are numerous export inquiries in the market calling for large sizes of pipe; one being for 3,000 tons of 36 to 42-in. pipe. Quotations are steady and unchanged from last month, in spite of the reduction of at least $1 in the price of pig iron. Prices are as follows:

Birmingham, Ala., 4 to 6-in., $22.50; 8 to 12-in., $22; over 12-in., $21.

Chicago, 4-in., $25.50; 6 to 12-in., $24.50; 16-in., $24.

New York, 6-in., $21 to $22.

San Francisco, 4-in., $35; 6 to 12-in., $34.

Gas pipe is held $1 per ton higher in all markets.

PLATES.—While no large orders for cars have been received, there are many inquiries in the market for steel cars. These include 3,000 for the Erie, 1,000 for the Baltimore & Ohio, 1,000 for the Louisville & Nashville, 2,000 for the Queen & Crescent, 2,000 for the Pennsylvania, and 1,000 for the Virginia. The Buffalo, Rochester & Pittsburg has withdrawn an inquiry for 2,000 cars sent out some months ago. Shipbuilding work is neglected, but the contract for 4,500 tons of plates for the City of Los Angeles has not been closed yet. Quotations are as follows:

The base price of 1.35 cts. for wide plates established May 29 continues: Plates ⅜-in. thick, 6¼ to 100 ins. wide, 1.35 to 1.40 cts.; ¼ to 3/16-in. thick, 1.45 to 1.50 cts.; 3/16-in. and thinner, including No. 8 gage, 1.50 to 1.60 cts.; Nos. 8, 9 and 10 gage, 1.65 to 1.70 cts. All these prices are per lb., f. o. b. mill. In Chicago, store prices are 1.80 to 1.85 cts.

OLD MATERIALS.—A trifle more interest is observed in the market for old materials, but no improvement in prices is noted. Rejections continue to be the rule rather than the exception, and, although there are more inquiries for cast scrap, the market is flooded with offerings. Prices in New York per gross ton are as follows: Heavy-melting steel scrap, $10.50 to $11; No. 1 yard wrought, $10 to $12; No. 1 railroad wrought, $12.75 to $13,25; pipes and flues, $9.50 to $10; cast borings, $5.25 to $5.75; machinery cast, broken up, $11 to $11.50; stove plate, $8.50 to $9.

In Chicago, railroads are offering large quantities of old material, and this has somewhat depressed the market, although one mill, which placed an embargo on shipments, is now accepting material. The following prices are named per gross ton: Re-rolling rails, $12.25 to $12.50; heavy-melting steel scrap, $10.25 to $10.75; shoveling steel, $9.75 to $10.25. For such materials as are sold by the net ton, quotations are as follows: Miscellaneous railroad wrought, $10 to $11.50; machine-shop turnings, $6.25 to $6.75; No. 1 cast scrap, $10.25 to $10.75; pipes and flues, $8 to $8.50; railroad malleable, $10 to $10.50; agricultural malleable, $9.25 to $9.75.

In Pittsburg, some improvement is noted in the volume of business, but quotations are as low, if not lower, than any other time this year. The following quotations are per gross ton, f. o. b. Pittsburg: Re-rolling rails, $13.50 to $13.75; No. 1 foundry cast, $13.25 to $13.50; No. 2 foundry cast, $12.75 to $13; old grate bars, $10.50 to $10.75; car wheels, $13.50 to $13.75; bundled steel scrap, $10.75 to $11.

RIVETS.—Prices have been reduced and more business has developed. This is noted both in the line of structural and in boiler rivets. Structural rivets are now sold at $1.70 to $1.75 base and boiler rivets at $1.80 to $1.85 base. Structural rivets, ¾-in. and larger, take base price; cone headed boiler rivets, ¾-in. and larger, take base price of boiler rivets: ⅝ and 11/16-in. take an advance of 15 cts., while ½ and 9/-16-in. take an advance of 50 cts. Lengths shorter than 1-in. take an advance of 50 cts.

ROOFING, CORRUGATED.—The demand is more active on the lower prices which were named last month and specifications against old contracts are also coming in more freely. Revised prices of corrugated galvanized iron, per 100 sq. ft. of roofing surface, in carload lots f. o. b. Pittsburg, are as follows: No. 28, painted, $1.40; galvanized, $2.55; No. 27, painted, $1.55; galanvized, $2.60; No. 26, painted, $1.65; galvanized, $2.65; No. 24, painted, $2.60; galvanized, $3.15; No. 22, painted, $2.60; galvanized, $3.70.

Corrugated sheets from store New York are held at an advance of about 75 cts. per 100 sq. ft. of roofing surface over the Pittsburg price.

STEEL CASTINGS.—Prices continue without change. Open hearth steel castings, weighing from 100 to 500 lbs., are 3½ to 5 cts. per lb. Crucible castings, weighing from 100 to 500 lbs., are 7½ to 9 cts. per lb.

CASTINGS, GRAY IRON.—The volume of business continues below normal. Building castings are to be had at 1.62½ to 2 cts. per lb., depending on the size of the order and shape of the casting. Stair work is 2 to 2.50 cts. per lb. Rough castings, such as foundation pieces, sewer work, and similar heavy pieces, are 1.50 to 1.75 cts. per lb.

FREIGHT RATES. — The freight rates on finished steel products, from the Pittsburg district, including plates, structural shapes merchant steel and iron bars, pipe, fittings, plain and galvanized wire, nails, rivets, spikes and bolts (in kegs), black sheets (except planished), chain, etc., are as follows, in cts., per lb.: Albany, 16; Buffalo, 11; Boston, 18; Baltimore, 14½; Canadaigua, 13½; Cleveland, 10; Columbus, 12; Cincinnati, 15; Chicago, 18; Denver, Colo., 85½; Harrisburg, 14½; Louisville, 18; New York, 16; Norfolk, 20; Philadelphia, 15; Rochester, 11½; Richmond, 20; Scranton, 15; St. Louis, 23; Washington, 14½.

SHEETS.—Business is active and some additional sheet mills have resumed operations. The shipments during June showed a material increase compared with those during May. Quotations f. o. b. Pittsburg, are as follows:

	Cts. per lb. Black.	Galvanized.
Nos. 10 and 11	1.65	2.00
Nos. 12, 13 and 14	1.70	2.10
Nos. 15, 16 and 17	1.75	2.25
Nos. 18, 19, 20 and 21	1.90	2.40
No. 22	1.85	2.40
Nos. 23 and 24	1.85	2.50
Nos. 25 and 26	1.95	2.70
No. 27	2.00	2.85
No. 28	2.00	3.00
No. 29	2.05	3.10
No. 30	2.05	3.30

Store prices Chicago are as follows:

	Cts. per lb. Black.	Galvanized.
No. 10	2.20	2.75
No. 12	2.20	
No. 14	2.25	
No. 16	2.35	2.85
Nos. 18 to 22	2.50	3.00
No. 24	2.55	3.10
No. 26	2.65	3.30
No. 27	2.75	3.45
No. 28	2.95	3.60
No. 30	3.15	4.05

MERCHANT PIPE.—Specifications against old contracts continue to come in freely, but it will be recalled that the pipe trade was active previous to the reduction of prices in other lines and as there was no change in the price of pipe, no especial animation was expected in business. The most important contract in sight is for 25 miles of 16-in. pipe. Discounts are unchanged as follows:

	Black.	Galvanized.
¾ to 1½-in. Butt weld	79	69
2-in. Lap weld	76	66
2½ to 4-in. Lap weld	78	67
4½ to 6-in. Lap weld	77	67
7 to 12-in.	75	59

At these discounts the net prices of pipe per ft. are as follows:

	Steel Pipe in Cts. per ft. f. o. b. Mill Black.	Galv.
¾-inch	2.43	3.58
1 -inch	3.47	5.12
1¼-inch	4.74	7.00
1½-inch	5.69	8.35
2 -inch	8.65	12.20
2½-inch	12.70	19.80
3 -inch	16.60	25.60
4 -inch	23.70	36.70
5 -inch	33.40	48.00
6 -inch	43.20	62.00
7 -inch	54.00	78.00
8 -inch	65.00	93.00
9 -inch	78.00	112.00
10 -inch	92.00	132.00
11 -inch	104.00	149.00
12 -inch	114.00	162.00

BARS AND MERCHANT SHAPES.—Some improvement in the volume of business is noted. Quotations on bars and merchant shapes from store New York are as follows:

	Cts. per lb.
Refined iron:	
1 to 1⅞-in. round and square } 1½ to 4-in. × ⅜ to 1-in. }	1.70
1½ to 4-in. × ¼ to 5-1.	1.80
Rods:	
⅝ and 11/16 round and square	1.80
Angles:	
3-in. × ¼-in. and larger	1.90
3-in. × 3/16-in. and ⅛-in	2.30
1½ to 2½-in. × ⅛-in	2.05
1½ to 2¾-in. × 3/16-in. and thicker	1.95
1 to 1¼ × 3/16-in	2.05
1 to 1¼ × ⅛-in	2.10
⅞ × ⅛-in	2.20
¾ × ⅛-in	2.25
⅝-in. × ⅛-in	3.45
½ × 3/32-in	3.90
Tees:	
1-in.	2.35
1¼-in.	2.20
1½ to 2½ × ¼-in	2.00
1½ to 2½ × 3/16-in	2.10
3-in. and larger	2.95
Beams	1.90
Channels, 3-in. and larger	1.90
Bands, 1½ to 6 × 3/16 to No. 8	2.10
"Burden's Best" Iron, base price.	3.15
Burden's "H. B. & S." iron, base price	2.95
Norway bars	3.60
Bessemer machinery	1.90
Cast steel, base	7.00
Special cast steel, base	14.00

PILING, SHEET STEEL.—Prices are without change at 1.60 cts. per lb., f. o. b. Pittsburg.

WIRE ROPE.—Prices are unchanged. The discount to the larger trade is 42½ and 5% from list for galvanized and 50 and 5% from list for bright. The net prices of bright wire rope are as follows:

Diameter. ins.	Price per foot Cast steel.	Crucible steel.	Plow steel.
2¾	$1.05	$1.24	$1.46
2½	.85	1.05	1.22
2	.57	.65	.76
1¾	.44	.54	.64
1½	.32	.39	.45
1¼	.23	.28	.32
1	.15	.18	.21
¾	.10	.11	.13
⅝	.07	.09	.10
½	.06	.07	.07

LAG SCREWS.—The keen competition has forced prices down and cone point lag screws are now sold at a discount of 80% from list. The net prices are as follows:

Length.	Diameter in inches Net price per 100. ½-in.	¾-in.	1-in.
3½-in	$1.04	$2.12	$4.40
4 -in	1.11	2.26	4.66
4½-in	1.18	2.40	4.92
5 -in	1.25	2.47	5.18
6 -in	1.40	2.82	5.70
7 -in	1.52	3.10	6.22
8 -in	1.68	3.38	6.74
9 -in	1.83	3.66	7.26
10 -in	1.87	3.94	7.78
11 -in	2.11	4.22	8.30
12 -in	2.26	4.50	8.82

TIN PLATE.—The new demand is small and specifications against existing contracts are coming in slowly. This is partially on account of the unfavorable outlook for small fruits and vegetables as that affects the canning industry. The operations in the tin plate mills are about 60 to 65% capacity compared with 75% a month ago.

Prices are unchanged from a month ago: Terne plates or tin-plates used for roofing purposes are sold by the box of 112 sheets. Store prices in New York are unchanged as follows: $8.70 per box for 20 × 28-in. I C plates with an 8-lb. coating; plates of the same size with a 15-lb. coating are $10.60; 20-lb. coating, $13.20, and 40-lb. coating, $16.70.

CHAIN.—Prices are unchanged and the following are named for cask lots of 500 lbs. to consumers. The quotations are per 100 lbs. f. o. b. Pittsburg.

Sizes in ins.	Proof.	BB.	BBB.
3/16	$8.10	$9.35	$9.85
¼	5.55	6.80	7.30
5/16	4.55	5.80	6.30
⅜	4.00	5.25	5.75
7/16	3.70	4.95	5.45
½ and 9/16	3.50	4.75	5.25
⅝	3.40	4.65	5.15
¾	3.30	4.55	5.05
⅞	3.20	4.45	4.95
1	3.10	4.35	4.85
1⅛ and 1¼	3.20	4.45	4.95

Prices for hand-made chains are unchanged:

Size in inches.	BBB crane chain.	BBB crane, dredge hoisting or steam shovel hoisting chain.	Special "Warwick" crane, hoisting steam shovel hoisting & dredge hoisting chain.	Special "Trident" crane, steam shovel hoisting & dredge hoisting chain.
⅝	$7.95	$8.20	$9.15	$9.15
¾	7.15	7.45	8.45	8.45
⅞	7.67	6.90	7.90	....
1	6.15	6.40	7.45	....
1⅛	5.75	5.95	6.90	....
1¼	5.65	5.90	6.85	....
1⅜ to 1⅞	5.55	5.75	6.80	....

COKE.—The output of coke continued to decline during the first half of June, but since then operations have been on a larger scale. For the week ending June 24 the production, estimated by the "Connellsville Courier," was 271,000 tons, compared with 280,000 tons in the previous month. Some furnace coke for prompt delivery has been sold at $1.50 to $1.60. A sale of 5,000 tons monthly for last half delivery was made at $1.60; one of 9,000 tons at $1.65 and 11,000 tons at $1.75. For 72-hr. foundry coke prices are firmer at $1.85 to $2 for prompt and $2.10 to $2.40 for last half delivery.

SPIRAL RIVETED PIPE.—Prices continue unchanged from the last report. The prices given below are f. o. b. factory, freight equalized with New York City, being figured at a discount of 50, 10 and 10% from list.

They are for orders amounting to about $250. For large orders of several carloads, prices are from 12½ to 20% cheaper.

Diameter in ins.	*Thickness of steel, Birmingham wire gage.	Net price per 100 ft. With bolted joints complete. Plain.	Asphalted.	Galvanized.
3	20	$21.80	$14.21	$20.70
4	18	19.76	21.48	30.74
5	18	23.40	23.70	37.14
6	16	33.05	35.76	49.73
7	16	37.58	40.76	56.82
8	16	43.17	46.80	65.00
9	16	50.06	54.10	74.22
10	14	66.42	71.08	96.15
11	14	71.20	76.57	102.24
12	14	83.75	89.15	118.32
13	14	89.67	96.55	127.98
14	14	99.14	105.51	138.85
15	14	108.05	114.89	151.92
16	14	117.53	124.82	166.58
18	12	167.43	175.95	226.44
20	12	183.79	193.30	248.39
22	12	200.48	210.64	269.21
24	12	219.92	231.07	293.99
26	10	280.26	292.41	370.78
28	10	301.32	314.89	395.37
30	10	324.81	399.15	430.64

*Made in both lighter and heavier gages at corresponding differences in price.

NAILS.—A reduction amounting practically to $2 per ton was made on wire products June 20. The demand for nails is smaller on account of the lessened construction work in the East, but in the West there is a fair inquiry. The nail trade, however, is less active than many other branches of the steel trade. Wire nails in Pittsburg are sold at $1.75 per keg base in carloal lots to retail merchants. In less than carload lots, an advance of 10 cents per keg is demanded. In New York wire nails are sold from store at $2.00 per keg. Cut nails are now $1.65 per keg in carload lots from Pittsburg, but the price in New York has been reduced 5 cts. per keg, and the base price is now $2.00. All these prices are per 100 pounds.

WIRE.—A further reduction of $2.00 per ton was made on June 20. The following prices are named for carload lots of wire: Annealed, $1.55; galvanized, $1.85. Less than carload lots are sold at an advance of 10 cts. per 100 lbs. Galvanized barb wire is $2.05 and painted $1.75.

SWEDISH STEEL. — Business is quiet. Prices are without change. Drill steel, either round, hexagon or octagon, is 6 cts. per lb. for all sizes, ⅝ to 2 ins. For sizes 2⅛ to 3 ins., 7 cts. is quoted, and 3⅛ to 4 ins. is 7½ cts.

Hollow drill rod is held at 12½ to 15 cts. for the imported.

Anvils of Swedish steel are held at 9 to 9½ cts. per lb. They weigh from 80 to 600 lbs.

SWITCH POINTS.—The following prices are named, f. o. b. mill, for switch points in lots of ten or more pair: for 60-lb. rail, 10-ft. points, $16.25; 15-ft. points, $17.50 for 70-lb. rail; 10-ft. points, $18; 15-ft. points, $25; for 80-lb. rail, 10-ft. points, $25.50; 15-ft. points, $27.75; for 90-lb. rail, 15-ft. points, $30.50; for 100-lb. rail, $33.50. All of the above are furnished with three rods, except the 10-ft. points for 60 or 70-lb. rail, which have only two.

BOLTS.—Prices are lower in common with those for many other kinds of hardware. This is partially due to the lower prices of raw materials and more especially to the keen competition. The discount on common carriage bolts to the trade and large consumers is 75 and 10% on bolts ⅜ × 6-in. and smaller. On larger and longer bolts the discount is 70 and 10%. At these discounts the net prices are as follows:

CARRIAGE BOLTS.

Length ins.	Diameter in inches. Net price per 100. ⅜	[illegible]	¾
4	$0.62	[illegible]	$2.34
5	0.68	[illegible]	2.57
6	0.75	[illegible]	2.84
7	0.99	[illegible]	3.05
8	1.08	[illegible]	3.22
9	1.16	[illegible]	3.55
10	1.24	[illegible]	3.86
12	1.42	[illegible]	4.36
14	1.59	[illegible]	4.80
16	1.77	[illegible]	5.28
18	1.94	[illegible]	5.78
20	2.10	[illegible]	6.30

FROGS.—For mill shipments of ten or more, prices are as follows: bolted frogs, No. 7, for 60-lb. rail, $15; for 70-lb. rail, $16.50; for 80-lb. rail, $18; No. 8 frogs for 90-lb. rail, $21; for 100-lb. rail, $23. Plate frogs, No. 7, riveted to ⅝-in. plate for 60-lb. rail, $18; for 70-lb. rail, $20; for 80-lb. rail, $21.50. No. 8 frogs bolted to ¾-in. plate for 90-lb. rail are $25.50; for 100-lb. rail, $27.50.

REINFORCING MATERIAL.

TRIANGULAR MESH.—Business continues excellent and the demand is broadening.

The following quotations are for the lots of the size named, f. o. b. mill in Pittsburg district:

Style No.	Cross sec. area per ft. width.	Price per 100 sq. ft. Carload lots.	Less than carloads and more than 10,000 sq. ft.
4	.102	$1.03	$1.25
5	.077	.82	.99
6	.058	.65	.78
7	.041	.50	.61
23	.170	1.73	2.08
24	.142	1.48	1.80
25	.124	1.32	1.60
26	.110	1.20	1.45
27	.085	.98	1.19
28	.066	.81	.98
29	.049	.67	.81
31	.261	2.55	3.08
32	.225	2.20	2.67
33	.196	1.96	2.38
34	.146	1.51	1.82
35	.109	1.20	1.45
36	.075	.89	1.07
38	.380	3.62	4.38
39	.325	3.12	3.77
40	.283	2.74	3.30
41	.208	2.08	2.52
42	.151	1.58	1.92
43	.101	1.13	1.36

This material is made in regular widths of 18, 22, 26, 30, 34, 42, 46, 50, 54 and 58 ins. Standard lengths of rolls are 150, 300 and 600 ft. Cutting to special length is charged extra.

BARS, CONCRETE-REINFORCING. — The demand for concrete-reinforcing bars continues excellent, and some good contracts have recently been placed for future delivery. It is expected that the subway work in New York City will open some time this summer, and this will, of course, call for a large quantity of reinforcing bars.

The base price of bars is 1.25 cts. per lb., Pittsburg, in carload lots. The extras on different sizes are as follows:

	Cts. per lb. Plain.	*Deformed.
¾-inch and larger	1.25 to 1.35	1.30 to 1.40
⅝-inch	1.30 to 1.40	1.35 to 1.45
½-inch	1.35 to 1.45	1.40 to 1.50
⅜-inch	1.50 to 1.60	1.55 to 1.65
¼-inch	1.75 to 1.85	1.80 to 1.90

Bar from stock, Pittsburg, are usually cut to the required length without extra charge. Prices per lb. are as follows:

	Cts. per lb. Plain.	*Deformed.
¾-inch and larger	1.45 to 1.55	1.55 to 1.65
⅝-inch	1.50 to 1.60	1.60 to 1.70
½-inch	1.55 to 1.65	1.65 to 1.75
⅜-inch	1.70 to 1.80	1.80 to 1.90
¼-inch	1.95 to 2.05	2.05 to 2.15

*The price of deformed bars varied according to the shape, and some are held much higher than these prices.

INTERLOCKING PLATES.—For interlocking steel plates, of 24 gage black steel, f. o. b. mill Central Ohio, the following prices are named:

Length.	Per 100 sq. ft. Weight.	Price. Flat Sheets.
Under 4 ft.	100 lbs.	$11.00
4 to 6 ft.	160 lbs.	10.00
6 to 8 ft.	160 lbs.	9.50
8 to 10 ft.	160 lbs.	9.00
10 ft.	160 lbs.	8.50

Curved sheets are held at an advance of $1 per 100 sq. ft. over flat.

EXPANDED METAL. — Quotations are without change as follows:

Mesh.	Gage-stubbs.	Designation.	Weight per sq. ft.	Sectional area per ft. width.	Price per sq. ft. in cts. Carload.	10,000 sq. ft. to carload.
½-in.	18	Standard	.74	.209	3.71	4.04
¾-in.	13	Standard	.80	.225	3.69	4.03
1½-in.	12	Standard	.70	.207	3.43	3.76
2 -in.	12	Standard	.56	.166	3.20	3.48
3 -in.	13	Standard	.28	.087	1.32	1.44
3 -in.	10	Light	.50	.148	1.55	1.69
3 -in.	10	Standard	.60	.178	1.80	1.97
3 -in.	10	Heavy	.90	.267	2.46	2.69
3 -in.	10	Ex. heavy	1.20	.356	3.18	3.47
3 -in.	6	Standard	1.38	.400	3.85	4.20
3 -in.	6	Heavy	2.07	.600	5.64	6.16
4 -in.	16	Old Style	.42	.093	1.78	1.94
6 -in.	4	Standard	.84	.245	2.42	2.64
6 -in.	4	Heavy	1.26	.368	3.38	3.68

EXPANDED LATH. — Prices are unchanged. The prices for carload lots given below are f. o. b. Central Ohio:

Carload lots. Price in cts. per sq. yd.:

Gage.	Weight per sq. yd.	Black.	Painted.	Galvanized.
27	2¾ lbs.	11½	12¼	17½
26	2½ lbs.	12½	13¼	18½
25	2 lbs.	13½	14¼	19½
24	3.4 lbs.	14½	15¼	20½

Small Lots from New York Store.

Prices in cents per sq. yd.

27	13	13¾	19
26	14	14¾	20
25	15	15¾	21
24	16	16¾	22

This lath is packed 9 sheets to the bundle.

DIAMOND LATH FROM STORE.

Designation.	Gage.	Weight per sq. yd.	Price Per sq. yd. Black. cts,
A	24	4 lbs.	20
A Special	24	4 lbs.	18
B	27	2.9 lbs.	16½
B Special	27	2.9 lbs.	15
B B	27	2.33 lbs.	14
Square Twist	24	4 lbs.	20
Diamond No. 24	..	3.75 lbs.	20
" No. 24 Special	..	3 lbs.	16½
" No. 26	..	2.66 lbs.	16½
" No. 26 Special	..	2.1 lbs.	14
Square Twist No. 27	..	2.75 lbs.	14½

CLAY PRODUCTS.

HOLLOW TILE.—The volume of business continues as good as any time this year. An increase in the demand from suburban districts is noted.

Prices continue steady for hollow wall building tile, f. o. b. factory, Perth Amboy, N. J., as follows:

Size.	Price per block, in cts.
4 × 12 × 12-in.	5.25
6 × 12 × 12-in.	6.6
8 × 12 × 12-in.	8.9
10 × 12 × 12-in.	10.5
12 × 12 × 12-in.	12.1

Fireproofing partition blocks are unchanged as follows:

Size.	Price per block, in cts.
2 × 12 × 12-in.	4.4
3 × 12 × 12-in.	4.4
4 × 12 × 12-in.	5.
6 × 12 × 12-in.	6.6
8 × 12 × 12-in.	8.8

These prices are for what would be considered small orders—approximately carload lots. For quantities which exceed $1,000 worth of material concessions will be made.

DUCT TELEPHONE.—Small lots are sold at 4½ to 5 cts. per duct ft., but considerable concessions are made for desirable orders.

FLUE LINING.—Prices continue without change. The discount from list, f. o. b. mill, is 85%. Delivered in New York, in small lots, they can be had at 78%. Based on a discount of 85% at the mill, net prices are as follows:

	Weight in lbs.	Price per ft.
4½ × 8½-in.	14	$0.04½
4½ × 13 -in.	20	.068
4½ × 18 -in.	40	.15
6 × 12 -in.	22	.075
7 × 7 -in.	15	.053
8½ × 8½-in.	18	.068
8½ × 13 -in.	28	.098
8½ × 18 -in.	45	.135
12 × 16 -in.	45	.15
13 × 13 -in.	38	.128
13 × 18 -in.	57	.18
14 × 16 -in.	60	.165
16 × 16 -in.	65	.24
16 × 20 -in.	80	.30
18 × 20 -in.	75	.30

ROOFING TILE.—Prices are steady, and continue without change. The best grade of promenade roofing tile in flat blocks for high-grade roofs is sold at $20 per M. for run of kiln, and $30 per M. for selected. A cheaper form of tile with a smooth surface can be had at $10 to $12, but it is not suitable for roof gardens. These prices are for 9 × 9-in. blocks, f. o. b. factory. It requires 258 blocks to lay 100 sq. ft. of roof surface and, in consequence, the price per 100 sq. ft. of roof surface would be $4 to $5 for the smooth blocks; $7.82 for run of the kiln, and $10.73 for the selected.

Vitrified tile, unglazed, of the French or Spanish type, is sold at approximately $8.50 per 100 sq. ft. of roof surface, f. o. b. factory. Glass tiles are sold at 60 cts. each. It requires 183 of these for 100 sq. ft. of roofing.

SEWER PIPE.—Quotations are without change. The discounts applying to the Eastern list are as follows: For all sizes up to and including 24-in., 84% discount; for 27 and 30-in., 76% discount; for 33 and 36-in., 71% discount.

At these discounts the net prices per ft. for carload lots, f. o. b. factory, are as follows:

3-in.	$0.032
4-in.	.04
5-in.	.048
6-in.	.064
8-in.	.087
10-in.	.128
12-in.	.16
15-in.	.215
18-in.	.30
20-in.	.36
21-in.	.43
22-in.	.48
24-in.	.52
27-in.	1.09
30-in.	1.22
33-in.	1.78
36-in.	2.04

MILL SUPPLIES.

SHAFTING.—Prices are lower and these reduced quotations have brought some new business. It is expected that considerable business will develop when the implement makers begin to buy for next year's requirements. Revised discounts are 60% off list for carloads and 55% for less than carloads.

The following net prices per foot are based on the discount of 55%: ¾-in., 3.75 cts.; 1-in., 6.65 cts.; 1¼-in., 10.40 cts.; 1½-in., 13.50 cts.; 1¾-in., 18.36 cts.; 2-in., 23.70 cts.; 2¼-in., 31.45 cts.; 2½-in., 37.53 cts.; 2¾-in., 45.40 cts.; 3-in., 54.13 cts.; 3½-in., 82.60 cts.; 4-in., $1.15; 4½-in., $1.50; 5-in., $2.10; 5½-in., $2.74; 6-in., $3.48.

BELTING.—No especial activity is noted, and it is generally believed that the price of rubber belting would be shaded for desirable orders.

Some concessions have been made, but the general discounts remain unchanged as follows: Best grades, 40%; standard, 40 and 10%; and competition, 60 and 10%. The discounts on leather belting are unchanged as follows: Extra heavy, 60%; heavy, 60 and 5%; medium, 70%; light, 70 and 5%; standard, 70 and 10%.

The following net prices per foot of rubber belting are computed at the above discounts. The price of leather belting is, as stated, unchanged from last month, and the prices may be found on page 264 of issue of June 8.

RUBBER BELTING, NET PRICE PER FT.

Width inches.	2-ply.	4-ply.	6-ply.	8-ply.
3	$0.16	$0.22	$0.33	....
4	.21	.30	.45	....
5	.26	.44	.55	....
6	.30	.51	.65	$0.87
7	.36	.55	.75	1.01
8	.40	.57	.87	1.15
9	.46	.64	.96	1.30
10	.51	.72	1.01	1.44
12	.60	.86	1.30	1.70
14	.72	1.01	1.53	2.01
16	.83	1.17	1.76	2.35
18	.93	1.34	2.00	2.65
20	1.04	1.49	2.25	2.98
22	1.17	1.67	2.50	3.33
24	1.30	1.85	2.76	3.70
26	1.42	2.04	3.06	4.08
28	1.58	2.22	3.33	4.45
30	1.69	2.40	3.60	4.80
34	1.94	2.79	4.16	5.54
38	2.22	3.15	4.70	6.30
42	2.46	3.50	5.30	7.00
46	2.75	3.88	5.80	7.72
50	3.02	4.25	6.40	8.50
56	3.40	4.80	7.20	9.60
60	3.67	5.20	7.80	10.40

CHAIN BELTING.—Prices continue unchanged.

From 3 HP. to 10 HP. 30-in. centers complete, with two sprockets, $7 to $8 per HP.; from 10 HP. to 25 HP., 36-in. centers complete, $5 to $6 per HP.; from 25 HP. to 100 HP., 60-in., centers complete, $4 to $5 per HP.; from 100 HP. to 500 HP., 72-in. centers complete, $3 to $4 per HP.

PACKING.—Prices continue without change The following quotations are for small lots in original packages:

Asbestos wick and rope, 13 cts.; sheet rubber, 11 to 13 cts.; pure gum rubber, 40 to 45 cts.; red sheet, 40 to 50 cts. Cotton packing can be had at 16 to 25 cts.; jute at 3¼ to 3½ cts., and Russian at 9 to 10 cts.

LUBRICATING OILS.—Competition is unusually keen. Quotations continue without change, the following figures being named for 5-bbl. lots:

	Cts. per gal.
*Cylinder, dark	20 to 27
*Cylinder, steam, refined	14 to 22
Neutral Oils, filtered:	
Stainless while, 32 to 34 gravity.	28 to 29
Lemons, 33 to 34 gravity	17 to 19
Dark, 32 gravity	15 to 18
Crank Cast oil	15 to 17

*Prices are according to test.

HIGH-SPEED STEEL.—The demand is less than last month. Prices are without change at 50 to 75 cts. per lb.

FIRE HOSE.—Prices of hose are unchanged. The standard grade of underwriters' cotton rubber-lined hose, 2⅝-in. diameter, warranted, 350 lbs. pressure, is sold in 50-ft. lengths, complete with couplings, at 65 cts. per ft. Common hose, 2½-in. diameter, tested to 200 lbs. pressure, is 35 cts. per ft.

COTTON WASTE.—The following prices are named on cotton waste in bales of 100 to 500 lbs.: No. 1 white picked cotton waste, 9¾ cts. per lb., No. 3 is 8⅞ cts., No. 1 Colored, 6½ cts.; No. 3 Colored is 5½ cts.

LIGHTERAGE LIMITS.—The free delivery or "Lighterage Limits" in New York City are as follows: in Manhattan, from a point opposite the Fort Lee ferry, south along the Hudson River around the Battery and north along the East and Harlem Rivers to the Jerome Ave. Bridge at 155th St. In New Jersey, south from Fort Lee ferry to Bayonne City, points on the north and east shore at Staten Island, between Bridge Creek (Arlington) and Clifton, both inclusive, and including Elm Park, Eristina and Shooters Island. In Brooklyn, from 69th St., Bay Ridge, north to Port Cove, Astoria, Long Island City.

RUBBER.—The price of rubber continues to fluctuate within narrow limits, but the trend is apparently downward. Sales of Up-River Para, fine, have been made as low as 94 cts., the market now being quoted at 98 cts. It is estimated that there is at least 6,000 tons of ansold rubber in the Para market, and with a new crop coming on, prices may fall even lower. The prevailing price is materially below the average quotations for the last decade. Other grades of rubber have likewise declined, but not in the same proportion as Para. Up-River Para, coarse, is 81 cts.; Caucho ball, 81 cts.; Guayula, 44 to 46 cts., about 5 cts. a lb. lower than a month ago. African rubbers have only declined in a moderate way, Massai red being quoted at 92 to 96 cts.; Pinky, 75 to 76 cts., and Niggers at 56 to 58 cts.

LUMBER.

Continued dullness prevails in the lumber market. Prices are practically stationary, although for large orders competition would be very keen.

CROSS TIES.—The following prices, quoted f. o. b. New York, by G. S. Baxter Co., 15 William St., New York City, are unchanged from last month, as follows:

	Cents each.
7 × 9-in. by 8 ft. 6-in.	75
6 × 9-in. by 8 ft. nominal	72
6 x 8-in. by 8 ft.	67

Second-class, sound and square edge, are quoted as follows:

	Cents each.
7 × 9-in. by 8 ft.	61
6 × 9-in. by 8 ft. nominal	51
6 × 8-in. by 8 ft. nominal	45

HEMLOCK. — Prices are unchanged and delivered in New York, hemlock from Pennsylvania can be had at $20.50 to $21; from West Virginia, the quotation is $20 to $20.50.

The following prices are ruling in New York, and are 50 cts. lower than a month ago:

Price Per Thousand, f. o. b. cars, New York.

Size.	Length 10 ft.	12 ft.	14 ft.	16 ft.
2 × 4-in.	$22.50	$20.50	$20.50	$22.50
2 × 6-in. to 2 × 10-in.	20.50	20.50	20.50	17.50 to 18.50
3 × 4-in. to 12 × 12-in.	21.00	21.00	21.50	18.50 to 19.50
1 × 8-in.	....	17.50	17.50	17.50
1 × 10-in. and 1 × 12-in.	....	18.00	18.00	18.00

LONG LEAF YELLOW PINE.—There is less demand than a month ago. Prices continue unchanged, and for delivery from yard in New York and vicinity, for material classed as "Merchandise" under the 1905 rules of the Association, prices are as follows:

Prices Per Thousand Feet in Yard, New York.

	Length 20 ft. base,	21 to 25 ft.	26 to 30 ft.	31 to 35 ft.
2 in. wide and under by 8 in. thick and under	$31	$32	$33	$34
10 in. wide by 10 in. thick and under	33	34	35	36
12 in. wide by 12 in. thick and under	36	37	38	39
14 in. wide by 14 in. thick and under	43	44	46	46
16 in. wide by 16 in. thick and under	45	46	47	48

For pieces longer than 35 ft. and less than 40 ft., add from $4 to $8 to base price.

LATH.—In Boston, 1⅝-in. lath sells at $3.70 to $3.75 and 1½-in. at $3.40 to $3.50.

SPRUCE.—In Boston wholesale prices are as follows:

	Per 1,000 ft.
9-in., and under	$23.50 to $24.00
10 to 12-in.	23.50 to 24.00
2 × 4-in. random	20.00
2 × 6-in. random	19.50 to 20.00
2 × 8-in.	21.50 to 22.00
2 × 10-in.	22.50 to 23.50
2 × 12-in.	22.50 to 23.50

OILS AND PAINTS.

PETROLEUM PRODUCTS.—The export demand shows an improvement, but domestic business is only fair.

The Standard Oil Co. quotes the prices of crude oil in bbls. at the wells as follows: Pennsylvania, Second Sand, and Tiona, $1.30; Mercer black is 87 cts.; Corning, 77 cts.; New Castle, 84 cts.; Illinois, 60 cts.; Illinois heavy, below 30 gravity, 52 cts.; Kansas heavy, 30 cts.

In the New York market petroleum from tank wagon is unchanged at 6 cts. per gal.

Auto naphtha and stove gasoline are quoted at 13¾ cts. per gal.

Fuel oil is 2.75 cts. per gal. or $1.15 per bbl. of 42 gals. in carload lots, f. o. b. New York.

LINSEED OIL. — While business shows some improvement, and consumers are buying more freely, there is little animation in the market, and the general belief is that materially lower prices will be named after the new flaxseed crop comes in. Prices are slightly lower at 91 to 92 cts. for raw linseed oil in 5 bbl. lots. Boiled oil is held at the usual advance of 1 ct. per gal. over the price of raw. Lower prices are being named for flaxseed, and whereas the spot price is unchanged at $2.47, the September option can be had 5 cts. cheaper than a month ago at $2, and the October option at $1.92.

SPIRITS TURPENTINE.—Prices are again lower, and buying is freer. Stocks at selling points are ample for present needs, and it is becoming more and more evident that the recent advance was ill advised. The probabilities are that it will be a long time before the turpentine market gets over the effect of this speculative move. As stated, prices are lower, and turpentine in New York is selling at 57 cts. per gal. In Savannah, Ga., the price is 53½, and Wilmington, N. C., 52½ cts.

PAINTS—The inquiry is small, and buyers are waiting with interest the course of the oil market. Prices of white lead in oil are unchanged. For lots of 500 lbs. or over, in 250 to 500-lb. kegs, 7½ cts. per lb. is quoted; in 25 and 50 lb. kegs, 7¾ cts. is quoted. Red lead and litharge in bbls., half bbls. and 100-lb. kegs, is 8 cts. per lb.

Graphite paint is moving slowly. The best grades of graphite paint in linseed oil can be purchased at $1.40 per gal.

Hydrox preservative paint is 75 cts. per gal. in bbl. lots, New York City.

Colors in oil are quoted at the following prices per lb.: Lamp black, 12 to 14 cts.; Chinese blue, 36 to 46 cts.; Prussian blue, 32 to 36 cts.; Van Dyke brown, 11 to 14 cts.; Chrome green, 12 to 16 cts.; Raw or Burnt Sienna, 12 to 15 cts.; Raw or Burnt Umber, 11 to 14 cts.

CHEMICALS.

	Cts. per lb.
Nitric acid, 30°	3.87½ to 4.25
Nitric acid, 40°	4.50 to 4.87½
Sulphuric, 60°	0.90 to 1.00
Sulphuric, 66°	1.00 to 1.25
Sal Ammoniac, lump	9.25 to 9.75
Sal Ammoniac, granulated	5.87½ to 6.00
Sal Ammoniac, gray	6.00 to 6.25
Sulphur, roll	1.85 to 2.15
Sulphur, flour	2.00 to 2.40
Sulphur, flowers	2.20 to 2.60
	Per gallon.
Alcohol, grain, U. S. proof	$2.58 to $2.60
Alcohol, denatured, 5-bbl. lots.	.41 to .42
Alcohol, denatured, ½-bbls	.46 to .47
Alcohol, wood, 95 to 97	.52 to .57
Alcohol, wood, purified	.80 to ..

LINE CONSTRUCTION.

ALUMINUM WIRE.—The demand is limited and prices are without change at 31 cts. base.

POLES.—Cedar poles are quoted as follows by the R. D. Dowie Pole Co., New York Block, Seattle, Wash. The price is f. o. b. loading point:

Length in ft.	Diameter at top. 8-in.	9-in.
30	$2.70	....
35	3.15	$3.50
40	3.60	4.00
45	...	4.50
50	...	5.00
55	...	5.50
60	...	7.20
65	...	9.75
70	...	10.50
75	...	11.25
80	...	12.00

The prices of 30 and 35-ft. poles with a 7-in. top are 25 cts. higher. Otherwise chestnut poles, f. o. b. Mechanicsville, N. Y., are quoted by T. C. Luther of that place as follows:

Length in feet.	Price each. Diameter at top. 5-in.	6-in.	7-in.
25	$1.50	$2.00	$2.75
30	2.50	2.75	3.50
35	2.75	3.25	4.25
40	3.25	4.00	5.50
45	4.00	5.50	7.50
50	5.50	7.50	9.50

FIR CROSS ARMS.—Prices are unchanged as follows:

Size, 3½ × 4¼-in.	Price per arm in cts. Pacific Coast	Chicago.	New York.
3 ft., 2-pin	8	13½	15½
4 ft., 2-pin	11	18½	21
5 ft., 4-pin	16	26½	28½
6 ft., 4 and 6-pin	20½	31½	36
8 ft., 6 and 8-pin	28	42	48½
10 ft., 8, 10 and 12-pin	37	55½	67½

TELEGRAPH WIRE.—For lots of fair size, the wire measured in Birmingham wire gage, the prices in cts., per lb. are as follows: "Extra Best Best," Nos. 6 to 9, 4⅜ cts.; Nos. 10 and 11, 4½ cts.; No. 12, 4⅝ cts.; No. 14, 5⅛ cts. "Best Best," Nos. 6 to 9, 3½ cts.; Nos. 10 and 11, 3⅜ cts.; No. 12, 3½ cts.; No. 14, 4 cts. Actual freight is allowed from Trenton, N. J., where it does not exceed 25 cts per 100 lbs.

INSULATORS.—Prices are without change. Glass insulators in lots of more than 1,000 and less than 10,000 are sold at the following prices per 1,000: Double petticoat, 20 oz., $33; Western Union, $30.25; No. 2 cable $53.90; No. 4 cable, $210; Muncie type, 7-in., $236.50; No. 3 triple petticoat, 4½-in., $90.75.

COPPER WIRE.—Business is fair, although not equal to that of a month ago is still showing a decided improvement compared with last year. Prices are steady and firm at 13½ to 13¾ cts.

METALS.

COPPER.—The advance in price, which was just beginning to make itself felt when the last report was published in these columns, has continued throughout the month and business has been fair. At times, difficulty has been experienced by brokers who sought to secure single carloads for specific deliveries. Such a condition as this has not been noted for several years. With all the improvement in price, sentiment and consumption, it is felt that the advance in price has fully discounted the other two and the possibilities are that, should attempts be made to force the market much higher at this time, considerable resistance might be encountered and perhaps the ground gained would be lost. For the present the copper market is a waiting one, and, while it is expected that the statistics for June will show an increase in consumption and a decrease in stocks, it will be several months before the huge surplus is brought down to reasonable figures. Much talk is heard that the present upward movement is a speculative one and undoubtedly there has been some speculation in copper. There is always speculation in copper, but the present speculative buying is entirely different to that which occurred in 1908; then sellers of copper induced ordinary "Soldiers of fortune" to try their lot at buying copper futures in London. They were light-waisted speculators who knew nothing of the market and, as might have been told from the beginning, they lost their money and gained a little knowledge of the copper trade. Perhaps they prevented the copper market from declining to around 10 cts., but in the light of recent events that would not have been a terrible calamity. The present speculative buying, as it is familiarly termed, however, has been done by consumers of copper. Some of the largest copper consumers in the world have not only bought for present needs, but for future requirements. This copper will go in their own warehouses and ultimately be made up into finished product. They are buying it because their own order books show an increase

in business and not because any chart fluctuations indicated a double bottom or a probable advance. Sales of electrolytic have been made at 12.62½ cts. and Lake at 12.87½ cts.

PIG TIN.—After the spectacular advance in the price of pig tin from around 28 cts., during the years 1901 and 1904 inclusive, to 45 cts. in 1906, the United States Steel Corporation abandoned its policy of buying for its immediate needs and entered the market on an even footing with the large speculators and manipulators. They undoubtedly forced the price down, secured their supplies of pig tin at a lower price level to the benefit of all tin consumers. At times their stocks of pig tin were worth in the neighborhood of $2,000,000. The London speculators, who for generations had moved the price of tin up and down at pleasure, were afraid to measure swords with this new antagonist. Such an aggregation of capital, which was back of the Steel Corporation, was too much for even these inveterate gamblers. In the latter part of 1910, a powerful syndicate was formed in London and they quietly went to work to accumulate tin. In the latter part of March of this year, when prices were already high, trading in the London market was almost entirely for three-months' tin. Spot positions were neglected. During the early part of June, prices began to advance slowly and by the middle of the month sales were made at 50 cts. per lb. In fact, one sale of a lot of 5 tons was made in New York at 50.75 cts., which established a new high record for the price of tin. Since that time, quotations have dropped and tin is now hovering around 45 cts. At the time of the highest price here, 50.75 cts., the United States Steel Corporation was an active seller to legitimate consumers. The difference between the price of tin for spot delivery and delivery three months later was at times as high as 8 cts. per lb. This was simply a corner manipulated for the purpose of exacting the last farthing out of consumers and speculators short of the market.

The tin syndicate may not have loosened its grip on the situation, but it undoubtedly has driven many from the speculative field and probably more firmly convinced the leading consumer in this country of the necessity of handling the market with a strong hand.

LEAD.—The market has advanced and lead is now selling at 4.50 cts. New York and 4.35 cts. St. Louis. Outside consumers are asking the same figure as the leading interest for the first time in many months. The advance during the last four weeks has been approximately 7½ points.

	Per lb.
Sheet Lead:	
Large lots	6.25 cts.
Small lots	6.75 cts.
Lead Pipe:	
Large lots	5.75 cts.
Small lots	6.40 cts.

SPELTER.—Prices have moved up with some rapidity. Sales have been made as high as 6.80 cts., but the market has since weakened and now 6.55 cts. is demanded in New York and 6.45 in St. Louis. There are so many resale lots in the market it is difficult to name an exact figure, but it is evident that the floating supply of spelter has been materially reduced.

MISCELLANEOUS METALS.—Small lots of metal and metal products can be obtained from jobbers' stores, New York, at the following prices:

	Per lb.
Bismuth	$2.25
Brass tubes, iron pipe sizes:	
½-in.	.19
¾ to 3-in.	.18
3½-in.	.19
4-in.	.20
Brass, sheets	.14¼
Brass, rods	.14¼
Solder, ½ and ½ guaranteed	.27½
Zinc, sheets	.08½
Manganese bronze rods	.16
Manganese bronze in crucible form	.14
Monel metal, ingot	.16

OLD METALS.—Miscellaneous lots of scrap metal, amounting to about a ton, can be sold to dealers in New York at about the following prices:

	Cents.
Copper, heavy and crucible	10.75 to 11.00
Copper, heavy and wire	10.50 to 10.75
Copper, light and bottoms	9.50 to 9.75
Brass, heavy	7.00 to 7.25
Brass, light	5.50 to 5.75
Heavy machine composition	9.25 to 9.50
Clean brass turnings	7.00 to 7.25
Composition turnings	8.25 to 8.50
Lead, heavy	3.75
Lead, tea	3.50
Zinc, scrap	4.00

MISCELLANEOUS.

ROOFING SLATE.—The demand is only fair, but quotations continue without change as follows:

Quotations are named per "square" or 100 sq. ft. of roof surface in carload lots of the sizes in most general use, f. o. b. quarry station:

	Price per 100 sq. ft.
Vermont, sea green	$3.50 to $4.10
Pennsylvania, Bangor Ribbon	3.50 to 4.00
Maine, Brownsville No. 1	5.00 to 7.75
Maine, Brownsville No. 2	4.50 to 6.00
No. 1 Red	10.50 to 12.00
Unfading green	4.00 to 5.50
Genuine Bangor	4.00 to 6.50
Pen Argyle	4.00 to 5.50

ROPE.—The inquiry is larger and sales are being made more easily. Prices, however, are without change.

Pure Manila is 8¼ to 9 cts. per lb.; second grade, 7½ to 8 cts.; hardware grades, 7 to 7½ cts. per lb. Pure Sisal is 6¼ cts. for the highest grades, and 6 cts. for less desirable grades. Jute rope in commercial sizes is 6 to 6½ cts. per lb.

WATERPROOFING.—The prices for carload lots, f. o. b. cars New York, are as follows: Hydrex waterproofing felt, $1.25 per 100 sq. ft.; Hydrex compound "A," 26 cts. per gal.; Hydrex compound "B," 18 cts. per gallon.

Texaco waterproofing cement is $30 per ton in car lots, f. o. b. cars New York or Philadelphia.

Asphaltum for waterproofing is sold at $25 to $27 per net ton.

Glidden, graphite acid proof coating is sold at $1.25 per gal. in bbl. and ½ bbls., and $1.40 per gal. in 5-gal. cans. These prices are f. o. b. Cleveland or for delivery from warehouse, New York, Chicago, St. Louis Boston or Atlanta.

Portland cement waterproofing by the McCormick Process is sold by the makers, McCormick Portland Cement Co., at 7 cts. per lb., delivered at the nearest railroad station, subject to the following discounts: Less than ton lots, 2%; less than five tons, 5%; less than ten tons, 5 and 2%; less than 20 tons, 5 and 5%; less than 30 tons, 5 and 7½%.

ROOFING CEMENT.—Prices are unchanged at $25 per ton for Texaco.

ASBESTOS.—Asbestos building felt and sheathing in less than ton lots is 3½ cts. per lb. for the light, weighing from 6 to 30 lbs. per 100 sq. ft.; 4 cts. per lb. is charged for the heavy, weighing from 45 to 56 lbs. per 100 sq. ft.

Millboard is made in standard sheets, 40 × 40 ins., and 41 × 40 ins. It varies in thickness from 1/32 to ½-in. and in weight from 2 to 27 lbs. per sheet. The net price in 100-lb. lots is 5 cts. per lb.

Transite, asbestos wood, used for fireproofing, ventilators and smoke jacks, comes in standard sheets, 36 × 48 ins., 4[illegible] × 48 ins., and 42 × 96 ins. The prices, f. o. b. factory, Nassau, N. H., are as follows:

Thickness.	Weight.	Price.
⅛-inch	1 lb.	$0.08
3/16-inch	1½ lbs.	.12
¼-inch	2 lbs.	.16
5/16-inch	2½ lbs.	.20
⅜-inch	3 lbs.	.28
7/16-inch	3½ lbs.	.28
½-inch	5 lbs.	.32
9/16-inch	4½ lbs.	.36
⅝-inch	5 lbs.	.40
¾-inch	6 lbs.	.44
⅞-inch	7 lbs.	.48
1 -inch	8 lbs.	.52
1¼-inch	10 lbs.	.56
1½-inch	12 lbs.	.64
1¾-inch	16 lbs.	.72
2 -inch	16 lbs.	.80

EXPLOSIVES.—Dynamite of the kind usually used by contractors is approximately 11 to 13 cts. per lb., f. o. b. factory, in ton lots. Blasting powder, classified as "soda" grade, is sold at $1.20 to $1.40 per keg of 25 lbs. in lots of 10,000 lbs. The following prices prevail on Trojan in carload lots, minimum 24,000 lbs., f. o. b. Pacific Coast points: No. 1, 13½ cts.; No. 2, 10½ cts.; No. 3, 10 cts. They have a disruptive force equivalent to 60%, 40% and 30% of nitroglycerine.

Exploders, per hundred, are sold at the following prices: 4 ft., $3.60; 6 ft., $4.10; 8 ft., $4.60; 10 ft., $5.10; 12 ft., $5.60; 16 ft., $6.60; 20 ft., $7.50; 20 ft., $9.40; 30 ft., $12; 36 ft., $14.60.

Caps in lots of 10,000 are $7 to $8 per thousand.

Blasting machines for 10 holes are $12; 25 holes, $20; 50 holes, $40; 100 holes, $60.

PAPER.—Prices are without change from last month, as follows:

Tarred Paper:	Per roll of 108 sq. ft.
Standard, 2-ply, 40 lbs	$0.45
Extra heavy, 2-ply, 45 lbs	.55
Standard, 3-ply, 60 lbs	.65
Extra heavy, 3-ply, 70 lbs	.75

Rosin, Sized Sheathing:	Per roll of 500 sq. ft.
Light, 25 lbs	$0.38
Medium, 30 lbs	.45
Heavy, 40 lbs	.60

INDUSTRIAL NOTES.

(Continued from page 8.)

THE MACARTHUR CONCRETE PILE & FOUNDATION CO., 11 Pine St., New York, N. Y., announces that it has been recently awarded a contract for pedestal pile foundations for a large power plant to be erected by the Central of Maine Power Co. This power house is to be located on the Kennebec River, near Gardiner, Maine.

MR. J. A. MOORE has been appointed by the MacArthur Concrete Pile & Foundation Co., 11 Pine St., New York, N. Y., as district representative for the territory in and around Detroit, Mich., to be located at 1728 Ford Bldg., Detroit, where he will be pleased to consult with engineers and architects concerning pedestal concrete pile foundations.

MR. JAMES A. CLIFFORD, Mgr. of the Baltimore office of the Sprague Electric Works, has been appointed manager of the Philadelphia office and took charge there on July 1. The Baltimore office will be continued as in the past under the direction of Mr. Clifford subsidiary to the Philadelphia office, where Mr. Henry S. Patterson is in charge.

MR. WILLIAM H. GRAVELL and Mr. John R. O'Neil, Civil Engineer and Mechanical Engineer, respectively, have formed a partnership, to be known as the Power Equipment Co., at 1218 Chestnut St., Philadelphia, Pa., with the intention of doing engineering construction along the lines of factories, power houses, railroads and industrial plant work.

MR. WALTER H. FINLEY, Mem. A. I. M. E., who has for the past five years been in charge of the active management of the Sterling Coal & Coke Co., of Middlesborough, Ky., has been appointed General Manager of the Campbell Coal Mining Co., operating mines at Westbourne, Jackson and Eagan, Tenn., and Coalmont, Ky. The offices are located at Westbourne, Tenn.

MR. ALBERT C. LEHMAN, Vice-Pres. and Gen. Mgr. of the Blaw Collapsible Steel Centering Co., Pittsburgh, Pa., and Mr. Arthur H. Diamant, Asst. Ch. Eng., are at the present time on an extended trip throughout the middle and far western parts of the country. They will spend between three and four weeks in the West inspecting some of the large projects in which they are interested and on which Blaw Forms are being used. They will go as far west as the Pacific Coast, spending considerable time on the return trip in Canada.

NEW CAPITAL issues during the first half of 1911 were, according to "The Journal of Commerce," New York, as follows: Railway bonds issued in the first half of 1911 were $525,435,900; in 1910 they amounted to $435,756,440. The industrial bonds issued in 1911 were $189,206,000 and in 1910 $172,943,000. Railway notes issued in 1911 were $253,780,000, compared with $158,540,000 in the previous half year. The issue of industrial notes was about $10,000,000 greater, being $35,926,000 in 1911. Railway stock issues the first six months of this year were $76,202,000 and $74,970,910 last year. In the industrial stock issues the only falling off compared with last year is shown, being $148,918,050 this year and $181,121,600 last year.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogs recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins. and 9 x 12 ins.)

CLEANING WATER MAINS. — National Water Main Co., 61 Park Row, New York City. Folder; 5 × 7½ ins.

This circular is largely taken up with a table of data relating to water mains cleaned by this company. The table was reprinted on page 733 of our issue of June 15. In addition to the table, there is a reproduction of some water-pressure charts and two half-tone views showing water stream from main before and after cleaning.

ROOF CONSTRUCTION DIAGRAM.—The Barrett Mfg. Co. Cardboard; 10½ × 10½ ins.

This is a cardboard sheet intended to hang on the wall having on one side a diagram of wind pressure at hurricane velocity, percentage of increase of roof area and the incline of the roof in fractional pitch, degrees and minutes and the fall in inches per horizontal foot, of roofs of all pitches from horizontal to vertical. The reverse side of the card contains the Barrett specifications for felt, pitch and gravel or slag roofing.

CREOSOTED TIMBER.—The Wyckoff Pipe & Creosoting Co., 50 Church St., New York City. Paper; 9 × 6 ins.; pp. 36; illustrated.

This is an instructive little booklet to those interested in the creosote method of timber preservation. Beginning with a short sketch of timber preservation in general and the creosote process in particular, various products made of treated timber are taken up in detail, including electric wire ducts or conduits, cross-arms and poles, ties, piles, fence posts and bridge timbers. Wood block pavements and factory floors also are given considerable space.

LOCOMOTIVES. — Hannoversche Maschinenbau Actien Gesellschaft, Hannover-Linden, Germany. Paper; two circulars; 9 × 13 ins.; pp. 4; illustrated (each printed in four languages).

One of these circulars shows 0-8-0 freight engines and 4-4-2 passenger engines fitted with the Lentz poppet valves and valve gear; there is also a list of about 60 engines equipped with this gear, and a view of the first engine thus equipped (a little 0-4-2 tank engine). The other pamphlet relates to four-cylinder compound passenger engines, with a list 338 of such engines of different classes for various railways. Dimensions are given of one of these engines (4-6-0) for the Madrid, Saragossa & Alicante Ry. (Spain).

STEEL MINE TIMBERS.—Carnegie Steel Co., Pittsburg, Pa. Paper; 10 × 8 ins.; pp. 40; illustrated.

The use of structural shapes for timbering mines was described in Engineering News of Feb. 24, 1910. The catalog before us contains many illustrations of the use of steel I-beams and channels for this purpose, which show that they are being extensively used in Pennsylvania coal mines. The booklet will prove interesting not only to mining engineers but to the public who are interested in bettering mining conditions and making the mines safer places to work in.

CONVEYORS FOR FREIGHT AND PACKAGES.—Link-Belt Co., Chicago. Paper; 6 × 9 ins.; pp. 64; illustrated.

These conveyors include traveling platforms and conveyor chains as used at steamer wharves and piers for handling freight either directly or as loaded on hand trucks; also elevators and inclined and horizontal conveyors for use in warehouses, mills, stores, etc. Some of these are belt conveyors. The apparatus is modified to suit the requirements of each case and numerous actual installations are illustrated in order to show the variety and extent of this freight and package handling system. Two special applications are portable conveyors for handling passengers' baggage at ocean steamship piers.

Separate pamphlets contain a price list of sprocket and traction wheels and a description of the Ewart friction clutch.

CRANES.—Industrial Works, Bay City, Mich. Cardboard; 9 × 12 ins.; pp. 80; illustrated.

The largest railway wrecking crane described is of 120 tons capacity. It is mounted on a steel car 26 ft. 1¼ ins. long by 9 ft. 6 ins. wide with four-wheel trucks. The crane is equipped with double 12 × 12 engines and a boiler of the submerged flue type; and it is capable of handling the maximum load at a rate of 10 to 15 ft. per minute. The weight of the crane in working order is 212,000 lbs., and is distributed over a wheel base of 19 ft. 8 ins. Other cranes of the same type are made in capacities of 100, 75, 60 and 50 tons. Any of these cranes may be equipped with a special boom and used for bridge erection and other structural work. All cranes are equipped with self-propelling devices when required. Small locomotive cranes of from 5 to 20 tons capacity for handling lumber and structural materials are fully described. The engine, boiler and mechanism of all cranes are mounted on a heavy bed plate bolted to the car body. On this casting there is a roller plate upon which the thrust of the boom is carried. The operation of hoisting is through a train of spur gears connected direct to the hoisting drum. Flexible rope is used for the hoisting block. The crane may be slewed in either direction without reversing the engine by double friction clutches and a train of gearing operating the slewing rack. Some 10 pages are devoted to pile drivers. The last few pages are reproductions of blue prints showing the clearance lines of cranes and pile drivers. The book is excellently gotten up and printed and contains much of interest to railway men.

Western Proposal Advertising

Our Chicago office, 1138 Monadnock Block, will receive proposal advertisements until

Tuesday Noon

for insertion in the issue of the Thursday following.

Your Idle MACHINERY

or plant, or tools for which you have no present use might be sold or rented to some other reader of Engineering News by the investment of a few dollars on one of our "For Sale" pages.

THE RATE IS $1.50 PER INCH

For other Proposal Advertisements see pages 53, 54, 56, 57, 58 of Advertisements and Construction News, page 14

HIGHWAYS.

STATE OF MARYLAND, STATE ROADS COMMISSION, UNION TRUST BUILDING, BALTIMORE, MD.

NOTICE TO CONTRACTORS.

Sealed proposals for building six sections of State Highway, aggregating 19.82 miles in length, in the following counties, viz.:

ANNE ARUNDEL COUNTY: One section about 5 miles in length, from Owings toward Mt. Zion (stone surfacing only).

CALVERT COUNTY: One section about 6 miles in length, from Owings toward Prince Frederick (stone surfacing only).

CARROLL COUNTY: Two sections, aggregating 5.29 miles in length, between Gamber and Fenby (stone macadam).

BALTIMORE COUNTY: Two sections of the Frederick Road, from the City Limits to Catonsville, aggregating 3.53 miles in length (pitch macadam).

Will be received by the State Roads Commission, at its offices in the Union Trust Building, Baltimore, Maryland, until 12 M., on the 10th day of July, 1911, at which time and place they will be publicly opened and read.

Bids must be made upon the blank form contained in the Book of Specifications which will be furnished by the Commission upon application and payment of $2.00 for each section. Blue prints of each section will be furnished at the rate of 25 cents for each half mile.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Act of the General Assembly of Maryland of 1908, Chapter 141, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission, this twenty-eighth day of June, 1911.

JOHN M. TUCKER, Chairman.

E. E. GOSLIN, Secretary.

SEWERS.

Westfield, Mass.

Sealed proposals for building sewers in Westfield, Mass., will be received by the Selectmen, at the office of the Town Clerk, until 2 o'clock p. m. of July 13, 1911, and at that time will be publicly opened and read.

The work includes about 7,280 feet of pipe sewer from 6" to 24" in diameter, with manholes and catch basins.

Each bid must be accompanied by a certified check for five hundred ($500) dollars.

Plans may be seen and blank forms of proposals and contracts obtained at the office of the Town Engineer.

The Selectmen reserve the right to reject any and all bids, or to accept any bid should they deem it for the interest of the Town of Westfield so to do.

CHARLES L. HOUGHTON,
HARRY L. SCHAEFER,
FREDK. J. TOOKE,
Board of Selectmen.

OREN E. PARKS, Town Engineer.

RESERVOIR.

Americus, Ga.

Sealed proposals will be received by the Mayor and City Council of Americus, Georgia, until July 17th, 1911, for the construction of a reinforced concrete reservoir sixty feet in diameter by thirteen feet in depth. Plans and specifications on file at the office of city engineer. No bid will be considered unless accompanied with certified check for five per cent. of the bid, as evidence of good faith. The right is reserved to reject any or all bids.

T. N. HAWKES,
Clerk and Treasurer.

J. E. ANGLEY, City Engineer.

SHARPTOWN BRIDGE.

STATE OF MARYLAND,
STATE ROADS COMMISSION,
UNION TRUST BUILDING.
NOTICE TO CONTRACTORS.

Baltimore, Md.

Sealed proposals for building a bridge over the Nanticoke River, between Dorchester and Wicomico Counties, at Sharptown, Md., total length of bridge to be 640 feet, including pivot draw, with two 75-foot openings, six spans, deck plate girder construction, draw span through riveted truss, will be received by the State Roads Commission, at its offices in the Union Trust Building, Baltimore, Md., until 12 M. on the seventeenth day of July, 1911, at which time and place they will be publicly opened and read.

Bids must be made upon the blank form contained in the Book of Specifications, which will be furnished by the Commission upon application and payment of $2.00 for each section. Blue prints of each section will be furnished at the rate of 25 cents for each half mile.

No bids will be received unless accompanied by a certified check for the sum of five hundred (500) dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the act of the General Assembly of Maryland of 1908, Chapter 141, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this twenty-eighth day of June, 1911.

JOHN M. TUCKER, Chairman.

E. E. GOSLIN, Secretary.

ASPHALT ROAD.

Woodstown, N. J., June 28, 1911.

Sealed proposals will be received by the Road Committee of the Mayor and Council of the Borough of Woodstown on Monday, July 31, 1911, at 7 p. m., at the Council Chambers in the Borough of Woodstown for grading and placing asphalt concrete surface on East & West Avenue (.459 miles) in the Borough of Woodstown, Salem County, N J. Bidders may examine the plans, cross-sections and specifications for said work at the office of H. B. Keasbey, Mecum Building, Salem, N. J., and also at the office of the State Commissioner of Public Roads, State House, Trenton, N. J. Each bidder must accompany his bid with a certified check payable to the Mayor of the Borough of Woodstown for $1,000.00 as a guarantee that if said work is awarded to him he will enter into a contract with said Mayor and Council for the same.

The right to reject any and all bids is reserved.

E. S. FOGG,
Mayor.

PUMPS AND METERS.

OFFICE OF SUPERINTENDENT OF CITY WATER WORKS.

Room 103, City Hall, Richmond, Va.,
July 1, 1911.

Sealed proposals will be received at this office until four (4) p. m., Friday, July 14, 1911, for furnishing and erecting two centrifugal pumps, piping and water meters, as per plans and specifications on file in the above office. A certified check upon some national bank for five hundred ($500.00) dollars must accompany each bid, and bid must be made on form furnished by this office. The Committee on Water reserves the right to reject any or all proposals.

Envelopes containing bids must be sealed, addressed to the Committee on Water, contain the name and address of the bidder, and in the lower left-hand corner must be written "Proposal for centrifugal pumps."

For plans, specifications and further information, address

E. E. DAVIS, Superintendent.

DEPARTMENT OF THE INTERIOR, Office of the Superintendent U. S. Capitol Building and Grounds, Washington, D. C., July 1, 1911.—Proposals will be received and opened at the above office at 12 o'clock, noon, Saturday, July 22, 1911, for suitable transportation for freight and other purposes in the subway leading from the Capitol to the Senate and House Office Buildings, and in the sub-basement corridors of the Senate and House Office Buildings. Intending bidders will be furnished specifications and plans on application. The right is reserved to reject any or all bids, or to waive any technicality or informality in any bid. A deposit of Five Dollars ($5.00) will be required for the return of plans. ELLIOTT WOODS, Superintendent U. S. Capitol Building and Grounds.

STATE CAPITOL BUILDING.

Boise, Idaho.

Sealed proposals for the construction of a Capitol, complete (excepting Plumbing, Gas Fitting, Heating Apparatus, Elevators, Vacuum Cleaning Apparatus, Electrical Conduits and Wiring), for the State of Idaho, at Boise, will be received by Board of Capitol Commissioners, at State Treasurer's office, until 3 o'clock p. m., July 27, 1911.

Plans and specificatons may be seen at the offices of the Architects, Tourtellotte & Hummel, Overland Building, Boise, Idaho.

Bidders wishing plans and specifications for their exclusive use must accompany request with a draft or cashier's check in the sum of $75.00. payable to Tourtellotte & Hummel, as a guarantee of good faith on the part of the bidder to file a bonafide proposal and return the plans and specifications in good condition; said check or draft will be returned when above conditions are fulfilled.

A certified check in a sum not less than 2 per cent. of bid must accompany each proposal, drawn to the order of O. V. Allen, State Treasurer, to guarantee that bidder will enter into a contract and execute the required bond; same shall be forfeited to the State of Idaho if award of contract is made to bidder and he or they fail to enter into a contract and furnish the required bond within 21 days from date of award of contract.

Proposals shall be made only on the blank forms furnished by Architects, and must be sealed and marked, and be on file with the State Treasurer, on the date and hour above given.

Right is reserved to accept or reject any or all bids, or to waive any informalities in bids.

By order of the Idaho Building Commission.

JAMES H. HAWLEY, Chairman.
WILFRED L. GIFFORD, Clerk.
O. V. ALLEN, Treasurer.

(CORRECTIONS.)

PAVING.

Newburgh, N. Y.

The advertisement appearing on page 57 should give the date for closing of bids as July 25, and the date after which plans may be seen as July 12. The number of catch basins should be 25 instead of 12.

CALUMET-SAG CHANNEL EXCAVATION.

THE SANITARY DISTRICT OF CHICAGO.

Sealed proposals, endorsed "Proposals for Excavation and Collateral Work on Contract Section Four of the Calumet-Sag Channel," will be received by the Clerk of The Sanitary District of Chicago at the office of the said Sanitary District, on the 15th floor of the American Trust Building, Chicago, Illinois, until 12 M., Standard time, on August 10, 1911, and will be publicly opened by the Board of Trustees of said Sanitary District at a meeting to be held on that day, or the first meeting thereafter.

The work for which tenders are invited, consists of the Excavation and Collateral Work on Contract Section Four of the Calumet-Sag Channel of The Sanitary District of Chicago, in the Township of Palos, County of Cook, State of Illinois.

The approximate quantities for the comparison of bids are:

(a) 780,000 cubic yards of Glacial drift.
(b) 121,000 cubic yards of Rock excavation.
(c) 37,000 square yards of Rip-rap slope.

Specifications and plans may be obtained upon application at the office of said Sanitary District.

All bids must be upon blank forms of proposals furnished by said Sanitary District and shall be made in accordance with and to conform to all the terms and conditions stated therein.

The Board of Trustees of said Sanitary District reserves the right to reject any and all bids.

THE SANITARY DISTRICT OF CHICAGO,

By THOMAS A. SMYTH,
President of Its Board of Trustees.

Attest: I. J. BRYAN, Clerk.
Chicago, July 3, 1911.

DRAINAGE DITCH.

Elkhorn, Wis., June 27, 1911.

Sealed proposals will be received by the Commissioners of Turtle Creek Drainage District No. 1, Henry D. Barnes, Secy., Elkhorn, Wisconsin, until 2 p. m., August 1st, 1911, for work and material in building drains, as follows: About 230,000 cu. yds. earth, clearing eight acres, moving two iron highway bridges, including pile foundations, and filling old sites; building two new highway bridges and pile foundations; a small concrete dam, and a few yards of riprap. Plans are on file with the Secretary and Engineer. The Commissioners reserve the right to reject any and all bids. Each bid must be accompanied by a certified check for $500.00, payable to the order of Turtle Creek Drainage District No. 1.

CHARLES DUNLAP,
JOHN G. MEADOWS,
HENRY D. BARNES,
Commissioners.

H. H. TUBBS, Engineer.

SEWER SYSTEM.

Marietta, Okla.

Sealed bids will be received by the Mayor and City Council of the Town of Marietta, Oklahoma, and publicly opened on the fifteenth day of July, 1911, for the purchase by said Town of all of the sewer pipe and specials required in the construction of a system of sanitary sewers. Also for the purchase of flush tank and manhole rings and covers. List of quantities and specifications covering material can be had by addressing O'NEIL ENGINEERING COMPANY, Dallas, Texas, or the Clerk of the Town of Marietta, Oklahoma.

FILTER PLANT AND PUMPING STATION.

Flint, Mich.

Proposals will be received at the office of the Board of Water Commissioners, Flint, Michigan, until 2 o'clock, July 12, 1911, for the construction of the pumping station and filter plant for said city.

The work includes the construction of the intake, suction well, all buildings and filter equipment for eight one million gallon filters together with sedimentation basins, clear well, etc.

Bids will be received based on the plans prepared for the Board of Water Commissioners, equipped with filter appliances in accordance with the plans prepared by the bidder.

Copies of the Plans, Proposal Forms, Forms of Bond, Specifications and Contract can be seen at the office of the Board of Water Commissioners, City Hall, Flint, Mich; or at the office of the Consulting Engineer, William G. Clark, 1050 Spitzer Building, Toledo, Ohio.

Copies of the Contract Forms and Plans can be obtained on application to the Board of Water Commissioners, and upon deposit of Fifty ($50.00) Dollars, which will be refunded on return of the Plans and Specifications in good order on or before August 1st, 1911.

The Board of Water Commissioners reserves the right to reject any or all bids or to accept any bid which it may deem advantageous to the City of Flint.

By direction of

BOARD OF WATER COMMISSIONERS.
EDWIN STERNER,
President.

D. E. NEWCOMBE, Clerk.

WATER WORKS AND ELECTRIC LIGHT PLANT.

McKenzie, Tenn.

Sealed proposals will be received by the Board of Aldermen and Mayor of the City of McKenzie, Tenn., at the Mayor's office, until 2 P. M., July 27th, 1911, when they will be publicly opened, for the construction of a water-works and electric light plant. For all necessary information address

F. D. WALPOLE, Recorder,
McKenzie, Tenn.

C. H. JENKS, Engineer,
Union City, Tenn.

U. S. ENGINEER OFFICE, Jacksonville, Fla., July 3, 1911.—Sealed proposals for dredging at Trout Creek cut and constructing shore revetment, St. Johns River, Fla., will be received at this office until 12 M., Aug. 3, 1911, and then publicly opened. Information on application. GEO. R. SPALDING, Capt. Engrs.

CEMENT.

COUNTY CONTROLLER'S OFFICE,
Reading, Pa., June 30, 1911.

Sealed proposals will be received at this office up to 10 o'clock a. m., Tuesday, July 25, 1911, for furnishing the County of Berks with between thirty and forty thousand barrels of cement. Specifications and blank forms of proposals can be had at the County Commissioners' Office, at Reading, Pa.

All bids must be accompanied with a certified check equal to 10 per cent. of the aggregate amount of the bid. The right is reserved to reject any or all bids.

A. L. RHOADS,
County Controller.

SEWERS AND PAVEMENT.

Americus, Ga.

Sealed proposals will be received by the Mayor and City Council of Americus, Ga., until 7 p. m., July 10th, 1911, for the construction of pipe sewers and appurtenance, approximately twelve miles, also for the pavement of its business streets, aggregating approximately 50,000 sq. yds. A deposit of $5 will be required when the plans and specifications are taken which are on file in City Engineer's office. The Council reserves the right to reject any or all bids.

T. N. HAWKES,
Clerk and Treas.

J. B. ANSLEY, City Engr.

PROPOSALS FOR INSTALLING NEW STEAM BOILERS IN OFFICERS' QUARTERS AT MADISON BARRACKS, NEW YORK.—Office of the Quartermaster, Madison Barracks, New York, June 28th, 1911.—Sealed proposals, in triplicate, for the removal of old and installation of new steam boilers in five (5) officers' quarters at this post, will be received at this office until 2 p. m., July 27th, 1911, and then opened. Plans and specifications may be had upon application to this office. For securing these, intending bidders should forward certified check for $10.00; check will be returned upon return of plans. The United States reserves the right to reject or accept any or all bids or any part thereof. Envelopes containing proposals should be indorsed "Proposals for installing steam boilers" and addressed to the Quartermaster.

PROPOSALS FOR REMOVING ROCK.—U. S. Engineer Office, 401 Custom House, San Francisco, Cal., June 27, 1911.—Sealed proposals for removing Rincon Reef Rocks and Contissima Rock, in and near San Francisco Bay, Cal., will be received here until 12 noon, July 27, 1911. Information on application. JOHN BIDDLE, Col. Engrs.

U. S. ENGINEER OFFICE, Galveston, Texas, July 4, 1911.—Sealed proposals for constructing a stone dike on St. Joseph Island, Aransas Pass, Texas, will be received at this office until 12 m., August 4, 1911, and then publicly opened. Information on application. G. P. HOWELL, Major, Engrs.

For Additionnal
PROPOSAL
Advertisements
See page 13

Situations Open
(Or Vacant)

CHIEF draftsman for mechanical department of large corporation building a general line of cranes, coal and ore handling machinery, etc. Must be a man of large experience and have good knowledge of structural work. Position permanent at good salary. Location northeast. Address "P. A. 1," Engineering News, New York. 1-3t

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